

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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The International Seismological Summary.

1936 October, November, December.

**FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.**

The present number concludes the volume for 1936 and contains determinations for 137 epicentres, classified as:—

N. ₁ —13	R. ₁ —11	X.—54
N. ₂ —5	R. ₂ —20	
N. ₃ —18	R. ₃ —16	

Cases of deep focus occur on these dates:—

	Date.		Epicentre.		Depth
	d.	h.	°	°	
Oct.	19	19	36·5N.	135·8E.	0·060
	25	15	34·5N.	140·0E.	0·0125
	26	9	34·5N.	136·3E.	0·060
Nov.	12	20	45·5N.	148·5E.	0·015
	15	21	20·5S.	177·5W.	0·070
	22	14	30·2S.	179·0W.	0·090
	26	8	16·5S.	179·0W.	0·060
Dec.	1	6	30·5N.	129·0E.	0·040
	10	13	34·5N.	140·0E.	0·0125
	26	22	30·7S.	177·6W.	0·025

**KEW OBSERVATORY,
RICHMOND,**

23rd October, 1947,

SURREY,

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1936 OCTOBER, NOVEMBER, DECEMBER.

Oct. 1d. Readings at 0h. (Grozny, Tiflis, and near Sumoto), 2h. (Tashkent), 4h. (near Mizusawa), 5h. (Andijan), 6h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Tiflis), 8h. (Santiago), 11h. (near Samarkand), 12h. (Santiago), 13h. (Tashkent), 15h. (Mount Wilson, Pasadena, Riverside, Tinemaha, near Santiago, and San Javier), 16h. (near Andijan), 19h. (Medan), 20h. (New Plymouth), 22h. (Tacubaya and Tucson), 23h. (Tacubaya).

Oct. 2d. Readings at 0h. (near Medan (2)), 1h. (Hong Kong), 2h. (Hong Kong, Andijan, Frunse, Samarkand, and near Manila), 4h. (Santiago), 5h. (New Plymouth), 6h. (Berkeley, Branner, Lick, Ukiah, San Francisco, Butte, Bozeman, Sitka, Tucson, and near Florissant), 8h. (Berkeley, Branner, and Lick), 9h. (near Malabar (2) and near Sochi), 10h. (San Juan and near Medan), 12h. (Adelaide and Nanking), 13h. (Melbourne, Riverview, Christchurch, Baku, Sverdlovsk, and Ksara), 14h. (Andijan and Frunse), 19h. (Samarkand and Tiflis), 23h. (Sitka and Tucson).

Oct. 3d. 15h. 48m. 39s. Epicentre 47°·7N. 14°·7E. N.2.

A = +·6547, B = +·1718, C = +·7361; $\delta = -1$;
D = +·254, E = -·967; G = +·712, H = +·187, K = -·677.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Graz	0·6	122	i 0 3	-12	—	—	—	—
Vienna	1·4	53	e 0 22	+ 2	0 38	+ 2	—	1·2
Zagreb	1·8	151	e 0 21 _a	- 5	i 0 44	- 2	—	0·8
Prague	2·7	356	e 0 39	0	1 21	S _g	—	1·5
Padova	3·0	224	e 0 39	- 4	1 11	- 6	—	—
Cheb	3·1	330	e 0 48	P*	e 1 21	+ 1	—	1·7
Ravensburg	3·5	279	e 1 1	P _g	e 1 36	+ 6	e 2·2	—
Chur	3·6	264	e 0 49	- 2	e 1 43	S*	—	—
Ebingen	3·9	282	e 1 8	P _g	i 2 1	S _g	e 2·3	—
Stuttgart	3·9	291	0 56 _a	0	i 1 41	+ 1	e 2·3	2·8
Jena	4·1	331	i 0 59	+ 1	i 1 46	+ 1	i 1·9	2·2
Zurich	4·1	272	e 0 57	- 1	e 2 3	S*	—	—
Florence	4·3	215	1 2	+ 1	1 41	- 9	—	—
Karlsruhe	4·5	298	1 10	P*	1 56	+ 1	—	—
Belgrade	4·7	121	i 0 58	- 9	i 2 18	S*	—	3·8
Basle	4·8	275	e 1 6	- 2	e 2 33	S _g	—	—
Strasbourg	4·8	287	e 1 9	+ 1	i 2 28	S _g	—	—
Göttingen	5·2	325	i 1 14	0	i 2 24	S*	—	2·9
Neuchatel	5·2	268	i 1 11	- 3	i 2 36	S*	—	—
Capodimonte	N. 6·5	183	e 2 8	P _g	e 3 38	S _g	—	3·8
Lemberg	6·6	65	e 1 54	P*	—	—	—	6·1
Hamburg	6·8	338	e 2 55	P*	e 3 26	S*	e 4·0	4·2
Uccle	7·6	301	e 1 53	+ 5	i 3 37	S*	—	—
De Bilt	7·7	311	—	—	e 3 33	+17	e 3·9	5·3
Sofia	7·7	125	e 2 29	P _g	e 3 46	S*	—	—
Paris	8·3	285	2 40	P _g	—	—	4·2	4·2
Copenhagen	8·4	352	—	—	e 3 40	+ 6	4·6	—
Bucharest	8·5	108	e 2 9	+ 9	4 2	S*	4·9	—
Jersey	11·3	285	—	—	e 5 59	S _g	—	7·2
Tortosa	N. 12·1	243	e 5 46	S	(e 5 46)	S*	—	—
Upsala	12·6	6	—	—	e 6 26	S*	e 7·5	7·9
Bidston	12·8	304	—	—	e 5 11?	-11	—	—
Yalta	13·7	95	e 3 9	- 2	e 8 33	?	—	—
Edinburgh	13·9	315	—	—	e 6 11?	+22	—	8·2
Pulkovo	15·4	31	e 3 33	- 1	e 6 33	+ 9	8·2	8·8
Moscow	16·4	51	e 4 30	+34	—	—	8·6	10·7
Ksara	20·9	124	e 4 38	- 1	e 8 30	+ 6	—	—
Tiflis	22·0	94	e 4 58	+ 7	e 8 57	+11	12·7	14·0
Baku	26·1	92	—	—	e 10 26	+26	14·7	—
Tashkent	38·7	78	—	—	e 15 11	SS	e 20·6	26·3

For Notes see next page.

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NOTES TO OCT. 3d. 15h. 48m. 39s.

Additional readings:—

Vienna $S_g = +45s.$
 Zagreb $i = +23s., iZ = +27s., i = +33s. \text{ and } +42s., iZ = +45s.$
 Prague $eP_g = +46s.$
 Cheb $e? = +1m.25s. \text{ and } +1m.36s.$
 Ravensburg $eN = +1m.18s., iS_gN = +1m.45s., iN = +2m.1s.$
 Chur $i = +52s., eP_g = +57s.$
 Ebingen $iS_g = +2m.6s.$
 Stuttgart $iP_g = +1m.8s., iEZ = +1m.11s.? \quad iS^*N = +1m.54s., iS_g = +2m.1s. \text{ and } +2m.6s., iN = +2m.9s.$
 Jena $iN = +1m.25s. \text{ and } 1m.33s.$
 Zurich $i = +1m.0s., iP_g = +1m.9s.$
 Florence $P_g = +1m.19s.$
 Belgrade $i = +1m.6., iP_gZ = +1m.22s., iZ = +1m.42s. \text{ and } +2m.6s.$
 Strasbourg $P_g = +1m.24s., ePP = +1m.28s., ePPP = +1m.35s., ePS = +2m.4s., SS = +2m.32s.$
 Göttingen $iE = +1m.20s., iN = +2m.27s., i = +2m.41s.$
 Neuchatel $iP_g = +1m.29s.$
 Basle $i = +1m.8s., eP_g = +1m.17s.$
 Hamburg $iZ = +3m.42s.$
 Uccle $iE = +4m.5s.$
 Sofia $eNE = +4m.17s., iNW = +4m.40s. \text{ and } +5m.4s.$
 Copenhagen $eN = +3m.57s.$
 Bucharest $eN = +2m.19s., eEN = +2m.53s., eEN = +3m.15s.$
 Jersey $e = +6m.15s., SS? = +6m.32s.$
 Tashkent $e = +17m.29s. \text{ and } +18m.33s.$
 Long waves were also recorded at Durham, Kew, Simferopol, Scoresby Sund, and San Fernando.

Oct. 3d. 21h. 50m. 14s. Epicentre $1^\circ.2N. 122^\circ.8E.$ N.1.

$A = -.5416, B = +.8404, C = +.0209; \quad \delta = +4;$
 $D = +.841, E = +.542; \quad G = -.011, H = +.017, K = -1.000.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^\circ$	$^\circ$	m. s.	s.	m. s.	s.	m.	m.
Manila	13.5	352	i 3 8k	- 1	i 5 56	+17	i 7.3	—
Malabar	17.3	241	4 9	+11	7 37	+28	—	—
Batavia	17.6	244	i 4 2a	0	i 7 25	+10	—	—
Soengi Langka	18.7	248	4 10	- 5	e 7 41	+ 1	—	—
Kosyun	20.9	354	4 39k	0	8 33	+ 9	—	—
Taito	21.6	355	4 49	+ 3	—	—	—	—
Tainan	21.9	354	4 56	+ 6	8 54	+10	—	—
Arisan	22.4	354	4 51	- 4	8 53	0	—	—
Hong Kong	22.7	339	4 56a	- 2	9 3	+ 4	11.2	15.4
Karenko	22.8	357	5 2	+ 3	—	—	—	—
Taikyu	23.0	354	5 1	0	9 8	+ 3	—	—
Isigakizima	23.2	4	4 48	-15	9 0	- 8	—	—
Giran	23.6	358	5 2	- 4	—	—	—	—
Taihoku	23.9	358	e 5 10	+ 1	e 9 23	+ 2	—	—
Medan	24.2	276	i 5 19a	+ 7	i 9 34	+ 7	—	—
Phu-Lien	25.2	322	5 21	- 1	i 9 46	+ 2	12.8	—
Naha	25.4	9	5 23	- 1	—	—	—	—
Nake	27.9	13	5 55	+ 9	—	—	—	—
Zi-ka-wei	z. 30.0	358	i 6 6a	+ 1	10 46	-18	15.7	21.4
Nanking	31.1	352	i 6 13	- 2	i 11 18	- 3	15.5	20.0
Miyazaki	31.8	13	6 13	- 8	11 9	-23	—	—
Nagasaki	32.2	11	6 9	-15	—	—	—	—
Hukuoka B	33.2	12	e 7 38	PP	e 11 34	-20	—	—
Husan	33.4	8	e 4 32	?	e 8 34	?	12.1	—
Perth	33.8	190	i 6 36	- 3	11 53	-10	16.8	25.8
Koti	33.9	16	6 47	+ 8	—	—	—	—
Siomisaki	34.5	20	6 44	- 1	—	—	—	—
Hamada	34.8	14	7 4	+17	—	—	—	—
Sumoto	35.0	18	e 6 49	0	12 13	- 8	e 17.9	—
Wakayama	35.0	18	6 47	- 2	12 8	-13	—	—
Kobe	E. 35.4	18	e 7 4	+11	12 24	- 3	16.6	19.9
	N. 35.4	18	e 6 58	+ 5	12 20	- 7	15.2	22.3
Osaka	35.5	18	6 39	-14	—	—	—	—
Taikyu	35.6	8	e 6 47	- 7	12 15	-15	—	—
Toyooka	36.1	17	—	—	(12 37)	- 1	12.6	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hamamatu	36.3	21	6 50	-10	12 33	- 8	—	—
Hikone	36.3	20	6 50	-10	—	—	—	—
Nagoya	36.4	20	c 7 5	+ 4	—	—	e 17.3	—
Zinsen	36.5	4	e 6 48	-14	e 12 9	-35	—	—
Gihu	36.6	20	7 3	0	12 22	-23	—	—
Keizyo	36.6	5	c 7 6	+ 3	e 12 41	- 4	—	—
Misima	37.1	22	7 1	- 6	—	—	—	—
Tokyo	37.9	23	7 17	+ 3	—	—	—	—
Oiwake	38.0	21	7 21	+ 6	13 4	- 2	—	—
Nagano	38.2	20	7 20	+ 3	13 2	- 7	—	—
Maebasi	38.3	21	7 35	+17	—	—	—	—
Adelaide	39.0	159	e 7 19	- 5	i 13 21	0	e 20.7	28.5
Chiufeng	39.3	351	7 24 ^k	- 2	i 13 23	- 3	i 16.8	25.6
Hukusima	40.0	22	7 35	+ 3	13 32	- 4	—	—
Colombo	43.2	278	7 54	- 4	14 18	- 6	22.8	26.2
Riverview	44.0	145	e 8 5	0	e 14 39	+ 3	20.2	27.5
Sydney	44.0	145	e 8 20	+15	i 14 22	-14	23.1	32.0
Melbourne	44.1	154	8 5 ^a	- 1	14 46	+ 9	24.6	30.3
Kodaikanal	45.9	283	i 8 18	- 2	i 15 2	- 1	22.1	32.0
Hyderabad	46.5	293	8 27	+ 2	15 11	- 1	20.1	29.2
Agra	50.1	305	8 47	- 5	i 15 51	-11	—	—
Bombay	52.0	293	i 9 11	+ 5	i 16 35	+ 7	—	37.8
Frunse	59.8	320	e 9 56	- 7	18 6	- 7	35.3	—
Andijan	60.3	317	c 10 19	+12	e 18 35	+15	33.2	—
Tashkent	62.6	317	10 16	- 6	i 18 47	- 3	29.9	45.6
Christchurch	63.0	141	i 10 25 ^a	0	—	—	—	—
Wellington	63.3	138	10 24	- 3	19 3	+ 4	33.3	38.8
Samarkand	63.5	314	e 10 33	+ 4	19 1	0	—	—
Sverdlovsk	74.2	330	i 11 42	+ 6	i 21 10	- 1	34.8	49.1
Baku	76.3	311	e 11 46	- 2	i 21 30	- 5	37.8	51.8
Tananarive	76.5	250	e 11 48	- 1	—	—	e 36.8	44.5
Honolulu	79.7	68	16 4	PP	e 22 5	- 7	e 38.9	—
Grozny	79.8	313	12 7	0	22 7	- 7	41.8	—
Erevan	80.3	310	e 12 12	+ 3	e 22 10	- 9	—	—
Tiflis	80.3	312	12 6	- 3	i 22 10	- 9	39.8	55.1
Moscow	86.3	325	12 37	- 3	23 0	[- 8]	43.2	55.2
Ksara	86.8	303	i 12 39 ^a	- 3	e 23 19	- 6	41.1	—
Theodosia	87.3	315	e 12 52	+ 7	23 3	[-12]	39.8	—
Simferopol	88.2	315	e 12 53	+ 4	23 13	[- 8]	56.3	—
Yalta	88.2	314	e 16 20	PP	e 23 9	[-12]	e 50.0	—
Sebastopol	88.6	315	e 16 23	PP	e 23 14	[-10]	—	—
College	88.7	25	e 20 49	PPPP	—	—	—	—
Pulkovo	90.2	330	e 12 52	- 6	i 23 38	[+ 4]	50.8	54.7
Bucharest	93.9	314	e 16 12	PP	—	—	22.8	56.8
Sofia	96.1	312	e 17 16	PP	e 23 46	[-20]	—	58.8
Upsala	96.5	330	—	—	e 23 37	[-31]	e 46.8	60.3
Belgrade	97.9	314	e 17 49	PP	e 24 5	[-11]	e 50.2	—
Copenhagen	100.3	326	13 48	+ 3	24 19	[- 8]	48.8	—
Prague	100.7	321	e 19 28	PPP	e 24 22	[- 7]	e 46.8	51.3
Graz	100.8	317	e 7 59	?	e 17 36	PP	e 51.8	65.8
Bergen	102.1	333	—	—	e 23 46?	[-50]	e 47.8	—
Hamburg	102.3	325	e 13 52	- 2	i 24 28	[- 9]	e 52.8	62.8
Cape Town	102.5	235	e 17 49	PP	i 24 46	[+ 8]	e 46.6	54.0
Göttingen	103.0	323	i 18 18 ^a	PP	i 25 39	-14	e 54.8	67.8
Stuttgart	104.4	320	e 13 58	- 6	e 24 35	[-12]	e 51.8	71.5
Scoresby Sund	104.7	348	20 28	PPP	24 44	[- 4]	51.8	—
Strasbourg	105.3	320	e 13 46?	-22	e 26 4	{+31}	e 44.8	67.3
De Bilt	105.6	325	e 18 38	PP	e 24 49	[- 4]	e 54.8	72.6
Uccle	106.5	324	i 18 45	PP	i 24 49	[- 8]	e 49.8	—
Ukiah	107.6	48	—	—	e 24 52	[-10]	—	—
Edinburgh	108.2	331	—	—	i 24 53	[-12]	52.8	65.0
Paris	108.5	322	e 18 46?	PP	e 27 46?	?	56.8	—
Berkeley	108.7	49	—	—	e 24 53	[-14]	—	—
Kew	108.9	326	i 19 6 ^a	PP	e 24 59	[- 9]	55.8	70.6
Stonyhurst	108.9	329	—	—	e 25 1	[- 7]	58.5	64.8

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oxford	109.3	326	i 18 59	PP	i 28 16	SS	e 54.3	67.0
Bidston	109.4	329	—	—	e 25 0	[-11]	55.8	70.4
Jersey	111.0	324	—	—	e 25 2	[-16]	66.4	73.5
Tinemaha	z. 111.9	49	e 18 36	[+12]	—	—	—	—
Butte	112.3	37	—	—	e 24 52	[-31]	—	—
Algiers	112.6	310	—	—	e 34 46?	SS	73.8	77.8
Mount Wilson	z. 113.0	51	e 18 32	[+ 5]	—	—	—	—
Pasadena	113.0	51	i 18 33	[+ 6]	i 28 55	PS	i 34.7	—
Bozeman	113.4	37	e 28 52	PS	—	—	—	—
Iviglut	117.2	353	21 46?	PPP	25 28	[-13]	57.8	—
Granada	117.4	313	i 20 0	PP	—	—	65.3	—
Tucson	119.4	51	e 18 47	[+ 3]	e 27 8	{- 4}	e 48.3	—
San Fernando	119.6	313	—	—	e 33 11	?	67.8	—
Chicago	129.0	29	e 21 15	PP	e 25 56	[-20]	e 53.0	—
Florissant	129.7	33	e 21 16	PP	e 31 3	?	e 45.5	63.9
St. Louis	E. 129.9	33	e 17 45	?	—	—	—	—
Ottawa	130.6	16	e 22 29	PKS	e 38 10	SS	e 65.8	—
Toronto	130.9	20	i 22 33	PKS	i 28 17	{-10}	—	—
Oak Ridge	134.4	14	e 19 9	[- 5]	—	—	e 69.8	—
Weston	134.6	40	e 21 53	PP	—	—	—	—
Philadelphia	/ 135.7	90	e 22 1	PP	e 28 26	{-31}	e 63.3	—
Dakar	137.6	293	e 19 1	[-18]	e 27 48	?	e 84.0	90.3
Columbia	138.3	30	e 22 4	PP	—	—	—	—
Rio de Janeiro	154.4	211	e 19 46	[- 1]	—	—	—	—
San Juan	158.6	213	e 19 52	[0]	e 30 32	{-39}	e 69.9	—
La Paz	161.3	146	i 19 57k	[+ 2]	45 4	SS	82.0	91.1

Additional readings :—

Batavia iSE = +7m.45s.
 Soengei Langka S = +7m.57s.
 Hong Kong PP = +5m.17s., PPP = +6m.6s., ? = +8m.14s., SS = +9m.51s.
 Zi-ka-wei iZ = +6m.21s., PPZ = +6m.42s., PPPZ = +6m.56s., iZ = +7m.10s.,
 +9m.20s., and +11m.44s., SSZ = +12m.2s., SSSZ = +12m.20s.
 Nanking ePPN = +7m.16s., SS = +13m.6s.
 Perth PP = +7m.46s., PPP = +8m.1s., P_cS = +12m.46s., SS = +14m.1s.,
 SSS = +14m.36s. and +14m.56s.
 Sumoto SE = +12m.17s.
 Kobe eSZ = +12m.29s.
 Zinsen ePPN = +8m.9s.
 Adelaide iPP? = +8m.57s., i = +13m.48s., +17m.6s., and +19m.28s.
 Chiufeng PPEN = +9m.3s., iSSEN = +16m.9s.
 Riverview eE = +18m.1s., iN = +18m.10s. = S_cS + 4s.
 Melbourne i = +9m.46s., +15m.8s., +15m.51s., +17m.53s., and +20m.44s.
 Kodaikanal iSSE = +18m.9s.
 Agra pP?E = +8m.57s., PPE = +10m.53s., sS?E = +16m.25s., SSE = +19m.39s.
 Bombay P_cPEN = +10m.26s., PSEN = +16m.48s., SSSSEN = +21m.2s.
 Tananarive PS = +22m.15s., SS = +26m.37s.
 Honolulu S = +22m.12s., PS = +22m.52s., e = +24m.48s.
 Tifis ePPE = +15m.18s., ePSE = +22m.50s., eSSE = +27m.34s., eSSSE =
 +31m.22s.
 Moscow ePP = +16m.15s., SSS = +32m.46s.
 Ksara PP = +16m.4s., eSKS = +22m.54s., ePS = +24m.13s.
 Theodosia e = +16m.18s.
 Simferopol e = +16m.25s.
 College e = +21m.48s.
 Pulkovo PP = +16m.39s., SKS = +23m.18s., PS = +24m.52s., SS = +29m.34s.,
 SSS = +33m.22s., L_q = +45.8m.
 Bucharest eE = +17m.2s.
 Copenhagen PP = +17m.56s., SKKS = +25m.15s., PS = +26m.39s., eN =
 +27m.52s., SS = +32m.22s.
 Prague eN = +25m.22s., eE = +27m.46s.?, e = +32m.28s., and +36m.22s.
 Hamburg eZ = +18m.11s. = PP + 11s.
 Cape Town iPPSE = +27m.26s., iSSE = +32m.0s.
 Stuttgart ePP = +18m.27s., e = +19m.52s., ePS = +27m.27s., e = +30m.46s.,
 eSS = +33m.21s., eSSS = +36m.52s.
 Scoresby Sund PS = +27m.27s., iPPS = +28m.27s., eN = +29m.52s.
 Strasbourg i = +18m.39s., e = +28m.46s.?, e = +33m.33s.
 De Bilt eEN = +26m.5s. and +33m.35s.
 Uccle i = +26m.11s. and +28m.47s., i = +33m.49s., eE = +36m.46s.
 Edinburgh i = +29m.18s. and +35m.8s.
 Berkeley eE = +24m.57s., eN = +28m.5s., iEZ = +28m.9s.

Continued on next page.

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Kew ePSE = +28m.15s., iPPSEZ = +29m.15s., eSSEN = +34m.16s., eEN = +43m.17s. and +53m.57s.
 Stonyhurst e = +28m.11s., +29m.6s., and +34m.6s. = SS + 2s.
 Bidston e = +28m.15s., i = +29m.17s., e = +34m.21s. and +53m.58s.
 Jersey ePP? = +28m.32s., ePPP = +32m.12s., i = +34m.49s., and +59m.34s.
 Tinemaha iEZ = +19m.22s. = PP + 11s., eZ = +29m.32s.
 Algiers e = +56m.46s.
 Pasadena eZ = +26m.28s. = SKKS + 0s.
 Ivigtut SKKS = +26m.48s., PS = +29m.40s., PPS = +30m.52s., SS = +36m.10s., SSS = +39m.52s.
 Tucson PS = +29m.53s., ePPS = +31m.12s., eSS = +36m.36s.
 San Fernando eSS = +45m.43s.
 Chicago eSKP = +22m.33s., eSKKS = +27m.50s., e = +28m.3s., eSSS = +43m.7s.
 Florissant iZ = +21m.25s., eEN = +22m.27s., eN = +31m.57s., +38m.28s., and +40m.55s.
 St. Louis eE = +17m.49s., +18m.29s., and +24m.12s.
 Ottawa e = +34m.4s., eE = +47m.4s.
 Oak Ridge eZ = +21m.43s. = PP - 3s., iEZ = +22m.39s.
 Philadelphia eSKS = +26m.10s., e = +32m.28s., eSS = +40m.9s., eSSS = +44m.46s.
 Columbia eSKP = +22m.58s., e = +35m.46s.
 San Juan ePP = +24m.16s., eSKS = +26m.51s., ePPS = +37m.19s., eSS = +44m.56s.
 La Paz iPP = +24m.26s., SSSE = +54m.26s.
 Long waves were also recorded at Cheb, Florence, Durham, Vienna, Zagreb, Almeria, Jena, and Tortosa.

Oct. 3d. Readings also at 3h. (Nanking and near Santiago), 4h. (near Santiago), 7h. and 8h. (near Sumoto), 10h. (Andijan, Frunse, Tashkent, and near Zagreb), 14h. (Granada), 16h. (Andijan, Frunse, Samarkand, and near Ferndale), 18h. (near Berkeley, Branner, Lick, San Francisco, and near Tiflis), 19h. (Christchurch, Graz, near Branner, Fresno, and Lick), 20h. (near Nanking), 22h. (Medan).

Oct. 4d. 7h. Atlantic Ocean :—

Granada e = 32m.0s. and 49m.36s.
 La Paz iPE = 32m.50s., iSE = 40m.8s., LE = 50m.0s., M = 53m.57s.
 Rio de Janeiro eP = 33m.0s.
 San Juan e = 33m.12s.
 Huancayo eP = 33m.23s., ePP = 37m.23s., eS = 41m.6s., eL = 53m.30s.
 Ksara iP = 33m.47s.k, PP = 36m.12s., eS = 42m.24s.
 De Bilt iPZ = 33m.50s., eSS = 46m.53s., eL = 55m., M = 56m.22s.
 Tiflis eP = 34m.48s., eS = 44m.44s., eL = 71m.
 Baku eP = 35m.8s., S = 45m.10s., L = 61m.24s.
 Moscow eP = 35m.12s.
 Pulkovo e = 35m.40s., L = 65m.
 Tashkent e = 35m.57s. and 36m.10s., iS = 47m.24s., e = 54m.23s., eL = 65m.6s., M = 80m.12s.
 Sverdlovsk iP = 36m.22s., L = 65m.
 Uccle e = 42m.23s., eL = 54m.
 Bombay eE = 47m.0s., M = 73m.27s.
 Long waves were also recorded at Stuttgart, Strasbourg, Paris, San Fernando, Copenhagen, and Tucson.

Oct. 4d. 9h. 31m. 34s. Epicentre 47°·4N. 14°·7E. (as on October 3d.). X.

$$A = +.6547, B = +.1718, C = +.7361; \quad \delta = -1.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Graz	0·6	122	i 0 1	- 8	—	—	0·1
Vienna	1·4	53	e 0 21	+ 1	e 0 45	+ 9	—
Zagreb	1·8	151	0 24	- 2	0 45	- 1	—
Prague	2·7	356	—	—	e 1 25	S _g	2·4
Chur	3·6	264	e 0 57	P*	e 1 46	S*	—
Stuttgart	3·9	291	—	—	e 2 3	S _g	—
Zurich	4·1	272	e 0 56	- 2	e 2 8	S _g	—
Jena	4·1	331	—	—	e 2 2	S*	—
Basle	4·8	275	e 1 17	P*	—	—	—
Alicante	14·3	236	3 48	+29	—	—	—

Additional readings :—
 Prague e = +1m.56s.
 Zurich eP_g = +1m.10s.

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Oct. 4d. 23h. 53m. 35s. Epicentre 30°·7S. 177°·6W. (as on 1932 April 3d.). R.2.

A = -·8591, B = -·0360, C = -·5105; $\delta = -4$;
D = -·042, E = +·999; G = +·510, H = +·021, K = -·860.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	9·2	214	3 15	+65	5 10	+76	—	6·4
Hastings	10·0	206	i 2 25?	+ 4	i 3 35	-38	—	—
New Plymouth	10·8	217	3 20	+48	4 32	- 1	—	—
Wellington	12·2	208	3 1	+10	5 7	- 1	—	5·2
Christchurch	15·0	208	e 3 34k	+ 6	e 5 45	-30	6·6	7·7
Apia	17·7	18	e 4 3	0	i 7 26	+ 9	—	—
Riverview	26·5	255	i 5 38	+ 4	i 10 47	+40	e 12·4	14·8
Sydney	26·5	255	i 5 35	+ 1	i 10 25	+18	13·2	15·9
Melbourne	31·5	245	6 22k	+ 4	11 27	- 1	14·9	17·2
Adelaide	36·7	253	e 8 58	PPP	i 12 21	-26	—	29·2
Honolulu	55·4	23	e 9 16	-16	e 17 5	-10	e 26·0	—
Perth	55·9	250	9 25?	-10	17 25	+ 4	27·8	31·4
Manila	74·4	298	11 25a	-12	21 58	+45	—	—
Batavia	74·4	272	i 11 33	- 4	i 21 5	- 8	e 29·4	—
Numadu	77·5	324	11 54	- 1	—	—	—	—
Kohu	78·1	324	11 57	- 1	—	—	—	—
Wakayama	78·1	322	11 54	- 4	21 46	- 9	—	—
Maebasi	78·4	325	11 53	- 6	—	—	—	—
Nagoya	78·5	324	e 11 58	- 2	—	—	—	—
Oiwake	78·6	325	12 0	0	—	—	—	—
Osaka	78·8	322	12 1	0	—	—	—	—
Miyazaki	79·1	317	12 0	- 3	21 50	-16	—	—
Nagano	79·1	325	12 4	+ 1	—	—	—	—
Kosyun	79·2	303	12 1	- 3	—	—	—	—
Kagosima	79·3	316	12 14	+10	—	—	—	—
Gihu	79·4	324	11 29	-36	—	—	—	—
Hong Kong	84·2	300	14 33	?	22 50	[- 3]	—	44·4
Zi-ka-wei	84·8	312	12 30	- 2	—	—	—	43·8
Santa Barbara	84·9	45	i 12 34	+ 1	—	—	—	—
La Jolla	85·4	47	i 12 37	+ 2	e 23 0	[- 2]	—	—
Branner	85·6	41	e 12 40	+ 4	—	—	—	—
Pasadena	85·7	45	e 12 34	- 3	e 22 58	[- 6]	e 38·4	—
Lick	85·8	41	e 12 39	+ 2	—	—	—	—
Mount Wilson	85·8	45	e 12 33	- 4	—	—	—	—
Berkeley	85·9	40	i 12 40	+ 2	e 23 15	- 2	—	—
Riverside	86·1	46	e 12 38	- 1	e 23 3	[- 4]	—	—
Ukiah	86·2	39	e 12 52	+13	e 22 51	[-17]	e 38·5	—
Medan	86·4	276	e 12 1	-39	e 22 22	[-47]	e 46·4	—
Fresno	86·5	43	e 12 43	+ 2	—	—	—	—
Nanking	87·0	310	12 44	+ 1	23 4	[- 9]	e 38·5	45·7
Tinemaha	87·6	43	e 12 44	- 2	e 23 29	- 4	—	—
Tucson	89·2	50	12 53	- 1	23 25	[- 3]	e 36·7	—
Tacubaya	90·4	67	e 12 55	- 4	—	—	—	—
Chiufeng	93·7	315	i 13 14	0	23 41	[-13]	—	—
Huancayo	94·1	106	13 34	+18	23 56	[0]	43·9	—
Butte	96·7	39	—	—	e 23 49	[-20]	e 44·9	—
La Paz	97·4	113	13 55	+23	i 24 15	[+ 2]	45·4	—
College	98·4	11	—	—	e 23 35	[-43]	e 42·7	—
Colombo	104·3	268	18 20	PP	—	—	—	57·8
Florissant	106·7	52	e 18 40	PP	—	—	e 52·0	60·0
St. Louis	E. 106·8	52	e 18 22	[+15]	e 25 32	{-12}	e 52·4	—
Kodaikanal	E. 108·0	270	e 18 48	PP	e 28 18	PS	—	57·1
Rio de Janeiro	N. 110·8	134	e 19 25	PP	—	—	—	—
Columbia	111·5	61	—	—	e 24 49	[-31]	e 51·5	—
Cape Town	113·6	194	—	—	(e 26 22)	{-10}	55·2	71·4

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Agra	E. 115.0	287	—	—	i 25 20	[-14]	—	—
Bombay	116.0	277	e 19 47	PP	i 29 25	SKSP	—	68.6
San Juan	117.4	84	e 15 55	+48	e 25 31	[-11]	e 54.5	—
Philadelphia	118.0	58	e 20 3	PP	e 25 31	[-13]	55.6	—
Ottawa	119.2	52	—	—	e 25 41	[-7]	e 50.4	—
Vermont	120.7	53	e 23 51	?	e 25 37	[-15]	e 56.5	—
Oak Ridge	121.3	55	e 20 31	PP	e 25 49	[-5]	e 58.4	—
Weston	121.5	55	e 19 12	[+23]	—	—	64.1	—
Frunse	122.7	304	e 18 57	[+5]	—	—	—	—
Andijan	123.8	300	e 18 49	[-6]	—	—	—	—
Tashkent	126.2	300	e 18 47	[-12]	i 28 3	{+6}	e 52.5	84.5
Samarkand	127.6	298	e 18 59	[-3]	—	—	—	—
Sverdlovsk	132.4	320	19 21	[+10]	32 1	SKSP	55.4	77.6
Ivigtut	135.3	32	22 55	PKS	—	—	66.4	—
Scoresby Sund	138.0	10	19 25	[+6]	—	—	e 56.4	—
Baku	140.6	297	e 19 25	[+3]	—	—	62.4	84.7
Grozny	143.6	303	e 18 58	[-31]	—	—	—	—
Tiflis	144.5	300	i 19 31 _a	[-2]	e 29 39	{-11}	64.9	—
Moscow	144.9	326	e 19 34	[0]	29 37	{-16}	56.8	78.9
Pulkovo	145.5	335	e 19 33	[-2]	—	—	71.4	77.6
Upsala	N. 149.1	346	i 19 45	[+5]	—	—	e 80.4	—
Bergen	150.2	358	i 19 50	[+8]	—	—	e 72.4	—
Theodosia	150.6	309	e 19 41	[-2]	—	—	—	—
Simferopol	151.5	309	19 48	[+4]	—	—	—	—
Ksara	151.6	285	i 19 45	[+1]	e 33 33	SKSP	70.4	81.4
Yalta	151.6	308	19 47	[+3]	—	—	—	—
Sebastopol	152.0	309	19 55	[+11]	—	—	—	—
Copenhagen	154.0	347	19 50	[+3]	33 49	SKSP	72.4	—
Edinburgh	154.5	8	e 24 25?	PP	i 43 28	SS	e 81.4	97.9
Helwan	155.1	275	e 19 52	[+4]	—	—	—	—
Hamburg	156.5	350	e 19 50	[0]	—	—	e 75.4	92.4
Rathfarnham Castle	156.5	13	—	—	i 30 12	{-47}	73.4	85.4
Stonyhurst	156.6	8	e 25 25?	PP	e 43 55	SS	e 78.4	85.7
Bidston	157.0	10	—	—	e 45 0	SS	e 75.4	92.4
De Bilt	158.5	355	e 19 55	[+3]	e 44 14	SS	e 63.4	97.6
Jena	z. 158.6	343	e 19 55	[+3]	—	—	—	—
Prague	158.6	340	e 20 49	{+11}	e 34 7	SKSP	e 78.4	82.4
Oxford	158.8	7	i 20 28	{-11}	i 30 52	{-20}	e 75.4	91.1
Kew	159.2	5	i 19 55 _a	[+3]	i 30 10	{-64}	e 75.4	92.4
Vienna	159.5	333	e 19 54	[+1]	—	—	—	—
Uccle	159.9	356	i 19 59	[+5]	e 43 25	SS	e 65.4	—
Jersey	161.2	9	—	—	e 44 46	SS	81.9	—
Stuttgart	161.2	346	e 19 58 _a	[+3]	e 31 10	{-15}	e 77.4	89.4
Zagreb	161.5	329	e 20 3	[+8]	—	—	e 83.4	93.8
Strasbourg	161.7	349	i 19 57 _a	[+1]	—	—	e 96.4	—
Paris	161.9	0	i 19 59	[+3]	—	—	80.4	91.4
Basle	162.7	348	e 20 1	[+4]	—	—	—	—
Zurich	162.7	346	e 19 50	[-7]	—	—	—	—
Chur	162.9	343	e 19 56	[-1]	—	—	—	—
San Fernando	170.8	49	20 36	[+32]	e 32 36	{+20}	85.4	—
Granada	171.8	36	e 20 10	[+5]	—	—	—	—
Almeria	172.7	32	e 20 14	[+9]	—	—	—	—

Additional readings :—

New Plymouth i = +3m.27s.

Wellington i = +3m.14s., +3m.26s., +3m.50s., +4m.44s., +5m.9s., +5m.37s., and +6m.7s.

Christchurch i = +3m.42s., iEZ = +14m.7s.

Apia e = +4m.22s. and +11m.22s.

Riverview iZ = +5m.40s., iE = +6m.34s., iN = +7m.34s.

Melbourne i = +7m.32s. and +12m.0s.

Adelaide e = +11m.1s., i = +15m.42s. and +17m.54s.

Honolulu e = +17m.12s., ePS = +18m.10s., eSS = +21m.30s., eSSS = +22m.21s.

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Perth e = +24m.25s.?
Batavia PEN = +11m.35s., iN = +16m.37s., eN = +20m.43s.
La Jolla ePPE = +16m.19s.
Pasadena iP = +12m.37s., iPPNZ = +16m.9s., ePPPZ = +17m.53s., iSN = +23m.14s.
Lick ePE = +13m.9s.
Mount Wilson iPPZ = +16m.12s.
Berkeley i = +12m.48s., eZ = +21m.44s., iE = +23m.0s., eN = +23m.2s.
Ukiah eS = +23m.5s., e = +23m.20s. and +23m.30s.
Nanking ePP = +16m.30s., SS = +28m.20s., e = +29m.25s.
Tacubaya iSKPN = +17m.16s.
Tucson eSKS = +23m.10s., S = +23m.47s., PS = +24m.50s., eSS = +29m.49s., eSSS = +33m.13s.
Chiufeng iSEN = +24m.20s., PSE = +25m.19s.
Huancayo PP = +17m.20s., e = +17m.47s., S = +25m.37s., e = +25m.48s., SS = +31m.6s., SSS = +34m.58s.
Butte eS = +25m.7s., ePS = +26m.7s.
College e = +22m.32s.
Florissant iZ = +18m.46s. and +18m.54s., eZ = +27m.6s., iZ = +27m.13s.
St. Louis epPKPE = +18m.51s., eE = +20m.29s., eE = +26m.41s.
Kodaikanal iE = +21m.17s.
Columbia ePS = +28m.43s., eSS = +34m.55s.
Cape Town SKKS is recorded as eLE.
San Juan ePP = +19m.56s., SKS = +25m.36s., e = +25m.59s., ePS = +29m.39s.
Philadelphia e = +26m.47s., ePS = +29m.43s., iPS = +29m.51s., ePPS = +31m.17s., eSS = +36m.11s., eSSS = +41m.1s.
Ottawa e = +29m.43s., +35m.49s., and +44m.37s.
Vermont eSKKS = +27m.13s., e = +29m.52s., ePPS = +31m.25s., eSS = +36m.49s.
Oak Ridge eN = +27m.23s., eZ = +30m.29s. and +31m.45s., eE = +37m.17s.
Weston iPP = +20m.32s.
Tashkent iPKP = +22m.6s., PPP = +26m.3s., PS = +33m.34s., SS = +39m.55s., SSS = +45m.49s.
Sverdlovsk iPKP = +22m.47s., i = +23m.6s., e = +35m.3s., SS = +40m.25s.?
Scoresby Sund PP = +22m.31s., PKP = +22m.56s., SS = +40m.25s.?
Baku i = +23m.7s., e = +34m.25s.
Tiflis PKPZ = +22m.44s., SKSPE = +35m.7s., SSE = +42m.43s., eN = +58m.25s.
Moscow PKP = +22m.47s., PP = +24m.17s., PPP = +27m.33s., PS = +34m.47s.
Simferopol i = +20m.16s.
Ksara PP = +23m.19s., e = +31m.39s., ePPS = +36m.29s.
Yalta i = +20m.7s.
Sebastopol i = +20m.14s.
Copenhagen +20m.17s. and +20m.42s., PP = +23m.43s., eE = +39m.1s., SS = +43m.31s.
Edinburgh e = +40m.32s. and +60m.15s.
Helwan e = +20m.15s. and +36m.27s.
Rathfarnham Castle e = +41m.22s. and +56m.46s.
Stonyhurst e = +59m.45s.
Bidston i = +48m.40s.
De Bilt iZ = +24m.9s. = PP + 1s., eN = +24m.16s.
Prague e = +47m.25s.?
Oxford i = +23m.45s., +24m.31s., and +25m.1s.
Kew ePPNZ = +25m.2s., iPPPZ = +32m.40s., eSSSEN = +44m.13s., eEN = +45m.11s., eN = +48m.44s., eSSSE = +50m.44s., eN = +52m.37s., iSSSE = +59m.26s.
Uccle eE = +50m.25s. = SSS + 6s.
Jersey i = +46m.54s. and +77m.45s.
Stuttgart ePKPZ = +20m.9s. and +20m.44s., ePP = +24m.23s., ePS = +37m.45s., e = +38m.11s., eSS = +44m.47s., eSPS = +45m.43s.
Strasbourg iPP = +24m.25s.?
Paris PP = +24m.25s., e = +30m.5s.
Chur i = +20m.48s., e = +24m.29s. = PP - 2s.
San Fernando SS = +46m.32s.
Granada iPP = +25m.22s.
Almeria i = +23m.11s.
Long waves were also recorded at Hyderabad, Phu-Lien, Vladivostok, Ann Arbor, Chicago, Bozeman, and other European stations.

Oct. 4d. Readings also at 0h. (Bucharest, Sofia, Simferopol, and Tiflis), 4h. (Jena), 5h. (Medan), 6h. (Stonyhurst), 7h. (Kodaikanal and Scoresby Sund), 9d. (Nanking), 10h. (Hong Kong), 14h. (near Bucharest and Sofia), 16h. (near Mizusawa), 18h. (Medan), 19h. (near Berkeley), 20h. (Andijan), 21h. (Calcutta).

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Oct. 5d. 6h. 8m. 39s. Epicentre 9°·0N. 122°·7E. N.3.

A = -·5336, B = +·8312, C = +·1564; $\delta = +8$;
D = +·842, E = +·540; G = -·085, H = +·132, K = -·988.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5·8	344	1 25k	+ 3	2 33	+ 5	—	—
Kosyun	13·1	352	2 57	- 6	—	—	—	—
Arisan	14·6	353	3 29	+ 6	6 23	+18	—	—
Isigakizima	15·4	5	3 21	-13	—	—	—	—
Hong Kong	15·6	329	3 33a	- 3	6 32	+ 3	8·2	9·5
Phu-Lien	19·5	310	i 4 23	- 1	8 2	+ 6	9·4	—
Batavia	21·9	228	4 48	- 2	i 8 56	+12	—	—
Zi-ka-wei	z. 22·2	358	e 4 53	0	8 53	+ 3	—	15·6
Nanking	23·3	351	5 7	+ 3	i 9 19	+ 9	e 12·9	—
Kagosima	23·7	17	5 13	+ 6	—	—	—	—
Miyazaki	24·3	18	5 16	+ 3	9 28	0	—	—
Medan	24·5	260	5 15	0	9 32	0	—	—
Nagasaki	24·6	15	5 18	+ 2	—	—	—	—
Hukuoka B	25·6	16	e 5 29	+ 4	9 59	+ 8	—	—
Hamada	27·3	17	5 26	-15	—	—	—	—
Chiufeng	31·6	351	6 22	+ 3	i 11 25	- 4	e 13·7	20·5
Vladivostok	35·1	13	e 4 51	?	e 12 21	- 2	14·0	23·8
Perth	41·5	189	16 21	SS	—	—	—	—
Colombo	42·4	270	5 30	?	14 9	- 2	21·0	24·2
Kodaikanal	E. 44·6	276	e 8 17	+ 7	i 14 45	+ 1	21·2	26·1
Agra	45·9	300	8 15	- 5	14 58	- 5	—	—
Bombay	49·2	287	e 8 44	- 1	15 48	- 2	—	32·9
Frunse	53·9	318	e 8 8	?	—	—	—	—
Andijan	54·6	314	e 8 7	?	—	—	—	—
Tashkent	56·9	314	i 9 48	+ 6	i 17 31	- 4	e 26·0	35·7
Sverdlovsk	67·4	329	—	—	i 19 55	+ 5	32·4	44·0
Baku	71·1	310	11 23	+ 6	20 36	+ 2	36·4	48·5
Tifis	75·0	312	e 11 45	+ 5	e 21 17	- 3	41·7	52·3
Moscow	79·8	326	e 12 2	- 5	e 22 2	-12	41·7	48·5
Ksara	82·4	303	i 12 30k	+10	22 49	+ 8	—	—
Pulkovo	83·4	330	12 26	+ 1	29 39	?	44·3	50·9
Helwan	86·7	300	i 12 44	+ 2	23 21	- 3	—	—
Copenhagen	93·7	329	—	—	24 21	- 9	51·3	—
Scoresby Sund	97·0	350	—	—	24 8	[- 3]	51·3	—
Stuttgart	98·2	323	—	—	e 26 21?	+70	e 55·3	—
De Bilt	99·0	327	—	—	e 24 21?	[0]	e 52·3	62·0
Paris	102·1	324	—	—	e 24 21?	[-15]	58·3	63·3

Additional readings :—

Hong Kong PP = +3m.43s., SS = +6m.43s.

Batavia PZ = +4m.50s.

Nanking iE = +10m.19s.

Agra ePPE = +9m.58s., eSSE = +18m.2s.

Frunse e = +8m.51s.

Sverdlovsk i = +20m.54s.

Tifis ePPPE = +16m.14s., ePSE = +22m.1s., eN = +29m.51s.

Ksara PS = +23m.37s.

Helwan SKS = +23m.3s.

Copenhagen +30m.45s.

Prague e = +49m.33s.

Long waves were also recorded at Rathfarnham Castle, Christchurch, Edinburgh, Stonyhurst, Kew, Prague, Granada, Strasbourg, Hyderabad, Tucson, Ucele, and Upsala.

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Oct. 5d. 7h. 10m. 12s. Epicentre 29°·4N. 141°·9E. (as on 1932 Nov. 27d.). X.

$$A = -\cdot6856, B = +\cdot5376, C = +\cdot4909; \quad \delta = +4;$$

$$D = +\cdot617, E = +\cdot787; \quad G = -\cdot386, H = +\cdot303, K = -\cdot871.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	7·1	325	e 1 33	- 8	2 47	-14	—	—
Sumoto	7·7	312	—	—	e 3 0	-16	—	—
Kobe	7·8	315	c 1 24	-27	e 3 8	-11	—	5·6
Mizusawa	E. 9·7	356	e 2 23	+ 6	3 23	-43	—	—
Hukuoka B	10·7	296	e 2 14	-17	e 5 12	S*	—	—
Zinsen	15·1	306	e 3 23	- 7	—	—	e 8·6	—
Nanking	20·0	283	e 4 32	+ 2	e 8 58	+52	e 12·6	—
Chiufeng	E. 23·6	304	5 4	- 2	i 9 14	- 2	—	16·5
Tiflis	75·8	310	11 46	+ 1	e 21 20	- 9	40·3	48·3
Tinemaha	Z. 79·9	53	i 12 7	0	—	—	—	—
Mount Wilson	Z. 81·4	55	i 12 15	0	—	—	—	—
Pasadena	Z. 81·4	56	e 12 17	+ 2	—	—	—	—

Additional readings:—

Sumoto eZ = +3m.27s., e = +4m.53s.

Kobe eE = +3m.0s.

Long waves were also recorded at Copenhagen, De Bilt, Stuttgart, Kew, Strasbourg, and stations of U.S.S.R.

Oct. 5d. 9h. 44m. 24s. Epicentre 1°·5N. 126°·4E. (as on 1931 Sept. 29d.). N.1.

$$A = -\cdot5932, B = +\cdot8046, C = +\cdot0262; \quad \delta = -5;$$

$$D = +\cdot805, E = +\cdot593; \quad G = -\cdot016, H = +\cdot021, K = -1\cdot000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5·5	161	0 37	-41	—	—	—	—
Manila	14·2	338	i 3 19 _a	+ 1	6 20	+24	—	—
Malabar	20·7	246	e 4 41	+ 4	i 8 39	+19	—	—
Batavia	21·0	248	4 39 _a	- 1	8 47	+21	e 11·6	—
Kosyun	21·3	346	4 40	- 3	8 30	- 2	—	—
Taito	21·9	348	4 50	0	—	—	—	—
Takao	21·9	346	4 39	-11	8 26	-18	—	—
Tainan	22·3	347	4 57	+ 3	8 55	+ 3	—	—
Soengei Langka	22·3	252	e 4 53	- 1	8 54	+ 2	—	—
Arisan	22·7	348	4 55 _a	- 3	8 58	- 1	—	—
Isigakizima	22·9	355	4 53	- 7	9 12	+ 9	—	—
Hokoto	23·0	343	4 37	-24	—	—	—	—
Karenko	23·0	349	4 57	- 4	—	—	—	—
Taityu	23·3	346	4 59	- 5	8 57	-13	—	—
Giran	23·7	349	5 9	+ 2	9 34	+16	—	—
Hong Kong	24·0	331	5 7 _k	- 3	9 22	- 1	12·1	14·8
Taihoku	24·0	349	5 8 _a	- 2	9 18	- 5	—	15·3
Naha	24·8	3	5 19	+ 1	9 45	+ 8	—	—
Nake	27·0	6	5 37	- 1	10 14	- 1	—	—
Phu-Lien	27·3	316	i 5 41	0	10 18	- 2	11·6	14·3
Medan	27·7	275	i 5 50	+ 6	i 10 41	+14	—	—
Miyazaki	29·6	8	6 11 _a	+10	—	—	—	—
Titizima	29·7	29	6 2	0	—	—	—	—
Zi-ka-wei	Z. 30·1	352	i 6 6 _k	0	10 27	-39	15·7	17·8
Kagosima	30·3	7	6 9	+ 1	—	—	—	—
Tomie	31·2	4	6 13	- 3	10 43	-40	—	—
Nagasaki	31·4	5	6 18	+ 1	11 19	- 7	—	—
Nanking	31·4	347	i 6 16	- 1	i 11 10	-16	e 15·7	18·5
Unzendake	31·4	6	6 9 _a	- 8	10 39	-47	—	—
Kumamoto	31·6	8	6 20 _k	+ 1	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Simidu	31.9	10	6 22	0	—	—	—	—
Ooita	32.1	9	6 53	+29	—	—	—	—
Hukuoka	32.3	7	6 26	+1	11 32	-8	e 14.1	—
Hukuoka B	32.3	7	6 23	-2	11 0	-40	14.7	21.6
Koti	32.7	11	6 27	-2	—	—	—	—
Siomisaki	33.1	16	6 31a	-2	11 46	-6	—	—
Hirosima	33.3	10	6 37	+3	11 52	-3	—	—
Tokusima	33.5	13	6 37k	+1	—	—	—	—
Husan	33.7	3	6 38	0	11 56	-5	—	—
Wakayama	33.7	14	6 36a	-2	11 55	-6	—	—
Hamada	33.8	8	6 39k	0	—	—	—	—
Sumoto	33.8	14	6 36a	-3	11 54	-9	—	16.8
Okayama	33.9	12	6 42	+3	12 13	+9	—	—
Hatidyozima	34.0	20	6 42a	+2	—	—	—	—
Kobe	E. 34.2	14	6 44a	+2	e 12 9	0	e 14.3	—
	N. 34.2	14	6 41a	-1	e 12 5	-4	e 14.3	19.0
	Z. 34.2	14	6 40a	-2	e 12 0	-9	e 14.5	19.2
Yagi	34.2	14	6 44	+2	—	—	—	—
Osaka	34.3	14	6 44	+1	—	—	—	—
Osaka B	34.3	14	6 42	-1	—	—	—	—
Taikyu	34.4	3	e 6 46	+2	12 6	-6	e 18.0	—
Tu	34.5	15	6 53	+8	12 13	-1	—	—
Kameyama	34.6	15	6 45a	-1	12 5	-10	—	—
Kyoto	34.6	14	6 47	+1	—	—	—	—
Kanazawa	34.6	14	7 14	+28	12 48	+33	—	—
Sakai	34.6	10	6 47	+1	—	—	—	—
Hamamatu	34.9	17	6 44	-4	12 7	-13	—	—
Perth	34.9	198	6 46	-2	12 26	+6	—	15.6
Toyooka	34.9	13	6 50k	+2	12 15	-5	16.7	19.7
Hikone	35.0	14	6 41k	-8	12 2	-19	—	—
Ibukisan	35.1	14	6 51k	+1	12 19	-4	—	—
Nagoya	35.1	15	7 26	+36	—	—	14.8	—
Gihu	35.2	15	6 40k	-11	12 4	-20	—	—
Ito	35.5	18	6 55	+2	—	—	—	—
Numadu	35.5	18	6 54	+1	—	—	—	—
Misima	35.6	18	6 59	+5	12 36	+6	—	—
Iida	35.6	17	7 1	+7	—	—	—	—
Mera	35.7	19	7 3	+8	—	—	—	—
Hunatu	35.9	18	6 57	0	—	—	—	—
Husiki	36.0	14	7 3	+5	12 33	-3	—	—
Kohu	36.0	18	6 56	-2	12 30	-6	—	—
Zinsen	36.0	0	i 6 49a	-9	12 19	-17	e 15.8	—
Keizyo	36.1	1	i 6 57a	-2	i 12 30	-8	e 18.3	—
Takayama	36.1	14	7 17	+18	—	—	—	—
Yokohama	36.1	19	6 57	-2	—	—	—	—
Matumoto	36.3	14	7 17	+17	—	—	—	—
Tokyo	36.4	18	6 57	-4	—	—	—	—
Toyama	36.6	14	7 3k	0	12 36	-9	—	—
Kumagaya	36.7	18	7 2	-2	—	—	—	—
Oiwake	36.7	18	7 3k	-1	12 40	-7	—	—
Maebasi	36.8	18	7 13	+8	12 54	+6	—	—
Nagano	36.8	15	7 5k	0	12 42	-6	—	—
Tyosi	36.8	21	7 1	-4	—	—	—	—
Kakioka	37.0	17	7 3	-3	12 37	-14	—	—
Tukubasan	37.0	17	7 3k	-3	12 36	-15	—	—
Mito	37.2	17	7 4	-4	—	—	—	—
Takada	37.2	14	7 11	+3	12 49	-5	—	—
Utunomiya	37.2	17	7 7	-1	—	—	—	—
Dairen	37.7	354	7 3	-9	12 52	-10	—	—
Onahama	37.9	17	7 36	+22	—	—	—	—
Adelaide	38.2	165	i 7 16	-1	i 12 59	-10	18.3	27.5
Aidu	38.2	19	7 25	+8	13 16	+7	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Niigata	38.2	17	7 24	+ 7	—	—	—	—
Hukusima	38.5	19	7 17	- 2	13 8	- 6	—	—
Yamagata	38.9	18	7 32	+ 9	—	—	—	—
Isinomaki	39.4	19	7 59	+32	—	—	—	—
Chiufeng	39.7	347	i 7 27	- 2	i 13 25	- 7	—	—
Mizusawa	40.0	19	i 7 32	0	i 13 32	- 4	—	—
Akita	40.2	17	7 22	-12	13 25	-14	—	—
Aomori	41.4	17	7 44	0	—	—	—	—
Hatinohe	41.4	18	7 42	- 2	13 51	- 6	—	—
Vladivostok	41.9	7	i 7 47	- 1	e 13 56	- 9	20.4	—
Hakodate	42.3	16	7 56	+ 5	—	—	—	—
Riverview	42.3	149	e 7 52	+ 1	i 14 7	- 3	e 20.6	24.4
Calcutta	E. 42.5	304	7 57	+ 4	14 17	+ 4	20.2	29.3
Muroran	42.9	16	7 56	0	—	—	—	—
Melbourne	42.9	159	7 59	+ 3	14 21	+ 2	19.3	28.7
Urakawa	43.2	18	7 57	- 1	14 20	- 4	—	—
Sapporo	43.7	16	8 3k	+ 1	14 24	- 7	—	—
Obihiro	44.0	16	7 56	- 9	—	—	—	—
Haboro	45.0	15	7 56	-17	—	—	—	—
Nemuro	45.2	20	8 14	0	14 52	- 2	—	—
Colombo	46.7	278	8 27	+ 1	15 9	- 5	23.4	26.2
Kodaikanal	E. 49.4	283	8 46	- 1	i 15 45	- 7	i 22.8	28.4
Hyderabad	49.7	292	8 54	+ 5	15 59	+ 2	21.4	27.9
Agra	E. 52.9	303	9 7	- 6	i 16 27	-14	25.0	—
Dehra Dun	54.1	307	9 56	+34	17 16	+19	26.6	33.6
Bombay	55.2	293	9 29	- 1	17 1	-11	26.6	32.1
Arapuni	60.2	137	—	—	(19 1)	+42	33.8	36.6
Christchurch	61.1	143	10 10 ^a	- 2	18 26	- 4	28.9	33.3
Wellington	61.2	140	i 10 36 [?]	+23	18 46	+14	—	28.6
Frunse	61.9	319	10 14	- 4	18 33	- 8	—	—
Andijan	62.5	317	10 21	- 1	18 48	0	32.8	—
Semipalatinsk	62.5	329	i 10 20	- 2	e 18 38	-10	—	—
Apia	63.1	106	10 28	+ 2	i 18 54	- 2	27.6	—
Tashkent	64.9	317	i 10 34	- 4	i 19 20	+ 1	30.0	42.0
Tchimkent	65.0	317	e 10 36	- 3	e 19 17	- 3	32.0	—
Samarkand	65.9	313	e 10 46	+ 1	19 22	- 9	34.1	—
Sverdlovsk	75.7	329	i 11 52	+ 8	i 21 23	- 5	42.3	45.1
Honolulu	76.3	68	11 46	- 2	21 22	-13	34.8	—
Baku	78.8	312	i 12 2	+ 1	i 21 57	- 6	37.6	49.6
Tananarive	80.0	251	i 12 8	0	i 22 13	- 3	38.9	44.6
Tiflis	82.7	312	i 12 22	0	i 22 33	-11	35.8	50.4
Erevan	82.8	310	12 24	+ 2	22 37	- 8	—	—
Sotchi	86.6	314	12 44	+ 3	23 13	[+ 2]	42.6	—
College	86.9	25	11 54	-49	e 23 11	[- 2]	—	—
Moscow	88.1	326	i 12 46	- 2	23 13	[- 8]	43.0	51.8
Ksara	89.6	303	i 12 55 ^a	- 1	23 46	- 6	—	—
Theodosia	89.6	315	i 12 56	0	i 23 23	[- 7]	e 45.6	—
Yalta	90.5	315	i 12 58	- 2	i 23 26	[-10]	35.4	—
Simferopol	90.6	315	i 13 0	0	i 23 28	[- 8]	45.3	—
Sebastopol	91.0	315	i 13 2	0	i 23 31	[- 8]	35.6	—
Pulkovo	91.8	330	i 13 1	- 5	23 59	{+10}	45.6	52.1
Sitka	93.2	32	—	—	23 41	[-10]	e 43.2	—
Helwan	93.7	300	i 13 16	+ 2	24 21	- 9	—	52.8
Bucharest	96.3	315	e 13 25	- 1	24 56	+ 2	46.6	58.6
Lemberg	96.8	321	e 11 8	?	(25 0)	+ 2	—	25.0
Upsala	98.0	331	13 27	- 7	i 24 51	-18	e 44.6	58.1
Sofia	98.5	313	e 13 38	+ 1	24 14	[- 4]	48.6	56.6
Belgrade	100.2	316	i 13 44	0	i 24 22	[- 5]	e 35.7	—
Copenhagen	102.0	329	13 50 ^a	- 3	25 33	-11	47.6	—
Vienna	102.0	320	e 13 49	- 4	24 25	[-10]	51.1	56.6
Prague	102.7	322	e 13 55	- 1	e 25 36	-14	46.6	59.6
Graz	103.0	318	e 13 52	- 5	i 24 33	[- 7]	e 53.6	61.3
Seattle	103.0	40	e 18 26	PP	e 24 36	[- 4]	e 47.5	—
Zagreb	103.0	317	e 13 55 ^a	- 2	e 24 29	[-11]	e 54.6	—
Bergen	103.4	334	14 0k	+ 1	e 24 39	[- 3]	44.6	53.1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Cheb	104.0	323	e 14 2	0	e 24 42	[- 3]	e 50.6	63.1
Hamburg	104.1	327	i 14 1 _a	- 1	i 24 40	[- 5]	e 50.6	56.6
Jena	104.1	323	e 14 3	+ 1	e 25 36	{+12}	e 50.6	59.1
Ukiah	104.7	49	e 18 9	PP	e 24 39	[- 9]	e 47.9	—
Göttingen	104.9	325	i 14 7	+ 1	i 24 43	[- 6]	e 52.6	61.6
Scoresby Sund	105.1	350	14 5 _k	- 2	24 41	[- 9]	43.6	—
Capodimonte	N. 105.5	313	e 14 54	+45	e 25 4	{+12}	41.1	64.1
Berkeley	105.7	50	i 14 11	+ 1	e 24 44	[- 9]	e 48.4	—
Padova	105.8	318	e 14 9	- 1	24 52	[- 2]	e 56.6	—
Cape Town	106.0	236	e 14 20	+ 9	i 25 2	{+ 7}	e 49.8	57.1
Stuttgart	106.4	322	e 14 11 _a	- 2	e 24 49	[- 7]	e 43.1	59.0
Florence	106.7	316	e 14 22	+ 7	25 6	{+ 8}	—	—
Karlsruhe	106.7	323	e 13 54	-21	e 26 16	{+33}	e 55.6	—
Chur	106.9	321	e 14 15	- 1	—	—	—	—
De Bilt	107.3	325	14 15	- 3	e 24 56	[- 5]	e 54.6	68.5
Strasbourg	107.3	322	i 14 14 _a	- 4	i 26 15	{+28}	e 45.6	59.4
Zurich	107.3	321	e 14 18	0	—	—	—	—
Basle	107.8	322	e 14 18	- 2	—	—	—	—
Fresno	N. 107.9	51	e 14 22	+ 1	e 18 49	PP	—	—
Uccle	108.3	324	i 14 19 _a	- 4	i 24 59	[- 6]	e 49.6	61.7
Neuchatel	108.4	321	e 17 40	[-33]	—	—	—	—
Tinemaha	109.0	50	i 14 25	- 1	—	—	—	—
Edinburgh	109.6	332	i 19 1	PP	i 25 56	{- 8}	45.6	63.2
Butte	109.8	39	e 28 9	PS	—	—	e 45.7	—
Pasadena	109.9	53	i 14 28	- 3	i 25 59	{- 7}	i 45.3	—
Mount Wilson	110.0	53	e 14 28	- 3	—	—	—	—
Paris	110.3	323	i 14 30	- 2	25 7	[- 8]	55.6	63.6
Stonyhurst	110.4	330	e 18 39	{+20}	—	—	e 52.6	67.1
Kew	110.6	327	i 14 30 _a	- 3	e 26 6	{- 5}	e 41.6	67.2
Riverside	110.6	53	e 14 31	- 2	—	—	—	—
Oxford	110.9	328	e 13 42	-53	e 25 2	[-15]	e 50.6	65.7
Bozeman	110.9	39	—	—	e 28 35	PS	e 51.0	—
La Jolla	Z. 111.0	54	e 14 34	- 1	—	—	—	—
Jersey	112.1	326	e 19 17	PP	i 28 47	?	e 57.3	65.5
Rathfarnham Castle	112.6	331	i 10 41	?	i 25 12	[-13]	52.6	62.6
Barcelona	113.9	317	e 18 25	[- 5]	28 55	?	e 35.5	74.6
Algiers	115.1	311	e 17 36?	[-57]	e 25 20	[-14]	51.6	65.6
Tucson	116.3	53	e 14 58	- 4	i 26 51	{ 0}	e 52.6	—
Ivigtut	117.2	357	19 46	PP	25 32	[- 9]	57.6	—
Almeria	119.1	314	e 18 50	{+ 7}	e 28 44	?	e 65.0	—
Granada	119.7	315	i 20 14	PP	—	—	—	—
San Fernando	121.9	315	e 18 53	{+ 3}	30 7	SKSP	62.6	—
Chicago	126.9	32	e 20 28	PP	e 25 38	[-32]	e 50.6	—
Florissant	127.4	36	e 19 2	[0]	i 25 43	[-29]	e 62.3	—
St. Louis	E. 127.6	36	e 19 1	[- 1]	—	—	e 58.6	—
Ann Arbor	E. 128.5	28	—	—	e 28 42	{+30}	e 62.4	—
Ottawa	129.2	20	e 19 7	{+ 2}	—	—	e 58.6	—
Toronto	129.3	24	e 19 7	{+ 1}	—	—	60.6	—
Buffalo	130.1	24	i 19 8	{+ 1}	—	—	—	—
Tacubaya	N. 130.6	63	i 19 12?	{+ 4}	—	—	—	—
Vermont	130.8	18	e 19 6	[- 2]	e 26 37	{+16}	e 57.1	—
Ithaca	131.5	22	i 21 30	PP	—	—	—	—
Pennsylvania	132.3	25	i 22 37	PKS	—	—	—	—
Oak Ridge	133.1	17	i 19 16	{+ 4}	—	—	e 65.6	—
Weston	133.3	17	19 12	[0]	—	—	—	—
Fordham	133.8	21	19 14	{+ 1}	e 28 36	{-10}	—	—
Philadelphia	134.1	22	e 19 20	{+ 7}	e 31 22	SKSP	e 59.0	—
Columbia	136.1	33	e 21 47	PP	e 31 52	SKSP	e 60.3	—
La Plata	146.4	174	19 42	{+ 6}	—	—	64.1	—
Balboa Heights	152.1	67	e 19 36?	[- 8]	—	—	—	—
Huancayo	156.0	118	e 19 54	{+ 5}	30 49	{- 7}	e 73.6	—
Rio de Janeiro	156.3	205	e 20 0	{+11}	e 28 8	?	e 44.1	—
San Juan	156.6	30	e 19 48	[- 2]	31 19	{+19}	e 73.9	—

For Notes see next page.

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NOTES TO OCT. 5d. 9h. 44m. 24s.

Additional readings:—

Hong Kong PN = +5m.12s., PP = +5m.38s., P_cP = +8m.56s., SS = +10m.14s.
 Taihoku PE = +5m.11s.
 Medan iN = +9m.37s.
 Zi-ka-wei PPZ? = +6m.36s., iZ = +9m.10s., SSZ = +11m.36s., SSSZ = +11m.56s.,
 SSSSZ = +12m.12s.
 Nanking eN = +13m.7s. = SSS + 2s., eE = +14m.6s.
 Hamada i = +8m.32s.
 Sumoto eNZ = +6m.39s.
 Hatidyoziima i = +7m.54s. = PPP - 4s.
 Kobe iP = +6m.44s.
 Taikyu i = +17m.9s. = S_cS + 0s.
 Perth P_cS = +12m.53s., SS = +15m.11s.
 Ito i = +8m.10s. = PP + 3s.
 Numadu i = +8m.41s.
 Mera i = +8m.26s.
 Zinsen iN = +7m.50s., iSE = +12m.25s.
 Tokyo PP = +8m.20s.
 Adelaide i = +7m.41s., +8m.46s. = PP + 6s., +8m.54s. = PPP - 1s., +14m.5s.,
 +15m.42s. = SS + 4s., and +17m.17s.
 Chiufeng ipPE = +7m.57s., iPP?E = +9m.22s., iSSE = +15m.57s., iS_cS?E =
 +17m.37s.
 Riverview iEN = +10m.0s., iN = +17m.14s., iE = +17m.25s., N = +17m.33s.,
 E = +17m.41s.
 Calcutta PPPE = +9m.56s., SSSE = +17m.41s.
 Melbourne PP = +9m.39s., SS = +17m.19s.
 Kodaikanal ipPE = +10m.27s., iPPPE = +11m.6s., iSSE = +18m.41s.
 Hyderabad PP = +10m.59s.
 Agra eN = +9m.12s., PPE = +11m.3s., PPPE = +11m.54s., iN = +16m.32s.,
 SSE = +19m.54s., SSSE = +21m.19s.
 Bombay PEN = +11m.36s., PPPE = +12m.43s., S_cSEN = +18m.15s., SSE =
 +20m.47s., SSSE = +22m.6s.
 Arapuni S = +25m.32s., SS? = +31m.26s.; true S is recorded as PP?
 Christchurch iP_cP? = +14m.26s., iS_cSEN = +20m.0s., P_cSS_cP = +25m.45s.,
 G = +27m.21s., e = +30m.26s.
 Apia ipP = +11m.4s., ePP = +12m.54s., ePPP = +14m.19s., esS = +19m.43s.,
 eSS = +23m.36s.
 Sverdlovsk L_q = +37.1m.
 Honolulu i = +11m.49s. and +12m.10s., e = +12m.26s., i = +12m.32s., PS =
 +22m.1s., e = +22m.34s., +31m.19s., and +32m.24s.
 Tananarive eE = +22m.8s., E = +22m.35s., eN = +26m.29s., eE = +26m.35s.
 Tiflis SKSE = +22m.39s., SSN = +27m.51s., eSSSEN = +31m.11s., e = +34m.2s.
 College e = +14m.55s., +15m.23s., +21m.51s., and +22m.10s., i = +22m.35s.,
 e = +22m.54s. and +23m.26s., SS = +28m.35s., eSSS = +32m.54s.
 Ksara i = +13m.16s., PS = +24m.42s.
 Pulkovo ipP = +16m.29s., SKS = +23m.30s., PS = +25m.7s.
 Sitka SKKS = +24m.17s., S = +24m.41s., PS = +25m.25s.
 Helwan i = +13m.36s., PP = +17m.1s., SKS = +23m.47s.
 Bucharest PPE = +17m.25s. and +19m.33s., SKSEN = +24m.2s., SKKSN =
 +24m.40s., PSEN = +26m.10s., PPSE = +26m.48s., SSE = +31m.51s.,
 SSSN = +35m.16s.
 Lemberg e = +21m.22s.
 Upsala iSKSE = +24m.3s.
 Sofia PPNE = +17m.38s., SKKSNE = +24m.48s., PS = +26m.24s.
 Belgrade iZ = +17m.46s. = PP + 2s., iNW = +21m.51s.
 Copenhagen PP = +17m.45s., +18m.4s., SKS = +24m.28s., PSE = +26m.57s.,
 PPSE = +28m.6s., eN = +30m.18s. and +32m.0s., SSE = +32m.48s.,
 SSS = +36m.24s.
 Vienna PP = +18m.27s., PS = +27m.36s., SS = +33m.46s.
 Prague ePP = +17m.15s.
 Graz iPPP = +19m.17s.
 Seattle ePPP = +21m.4s., eS = +25m.52s., eSS = +33m.31s.
 Zagreb e = +14m.15s., +16m.56s., and +18m.12s. = PP + 7s., i = +25m.41s.,
 e = +27m.11s. = PS - 6s., e = +33m.6s.
 Bergen PP = +17m.51s., eZ = +27m.11s., eN = +28m.43s.
 Heb e = +16m.55s., ePP = +18m.20s.
 Hamburg eEN = +18m.20s. = PP + 7s.
 Jena ePN = +14m.6s., i = +18m.20s., eE = +25m.42s., eZ = +25m.48s., eN =
 +26m.58s., eE = +27m.2s., eEN = +27m.6s.
 Ukiah eSKKS = +25m.7s., eSS = +33m.29s.
 Göttingen iZ = +17m.37s., iPPZ = +18m.26s., ipPE = +18m.36s., iSEN =
 +25m.54s., ePSEZ = +27m.24s.
 Scoresby Sund PP = +18m.28s., PPP = +20m.29s., SKKS = +25m.26s., S =
 +25m.58s., PS = +27m.29s., PPS = +28m.14s., eE = +32m.30s., SS =
 +33m.20s., SSS = +37m.6s.

Continued on next page.

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Berkeley ePE = +14m.13s., iZ = +18m.15s., eN = +18m.21s., i = +18m.28s.,
 iZ = +18m.30s., eE = +18m.33s., and +27m.49s. = PS + 4s.
 Cape Town iPE = +18m.29s., iPPN = +18m.36s., ePPPE = +20m.56s.,
 iSKSN = +24m.42s., iSKSE = +24m.48s., iS = +26m.15s., iPSN =
 +26m.33s., iPSE = +27m.40s., eSS = +33m.34s., iSSS = +37m.41s.
 Stuttgart eZ = +17m.25s., ePP = +18m.31s., e = +19m.27s., ePPP = +20m.53s.,
 eS = +26m.8s., ePS = +27m.36s., ePKKP = +29m.51s., eSS = +33m.36s.
 Chur e = +17m.40s.
 De Bilt iPP = +18m.44s.
 Strasbourg ePKP = +17m.41s., iPP = +18m.45s., i = +19m.11s. and +19m.36s.,
 iPPP = +21m.1s., eSKS = +24m.53s., iPS = +27m.45s., iPPS = +28m.41s.,
 iPcSScP = +29m.5s., eSS = +34m.11s.
 Zurich e = +17m.35s.
 Basle e = +18m.27s.
 Uccle iPKPZ = +17m.58s., iPPZ = +18m.51s., iSKSN = +25m.1s., iPS =
 +28m.3s., iPPSZ = +28m.56s.
 Tinemaha ePKPZ = +18m.30s., ePPNZ = +18m.57s., iPKKPZ = +29m.49s.,
 eZ = +32m.10s.
 Edinburgh i = +19m.26s., +28m.16s., +29m.20s., +34m.58s., and +35m.25s.
 Pasadena iPKP = +18m.30s., iPEZ = +18m.59s., iPPPEZ = +21m.45s., iSN =
 +26m.37s., iPSEZ = +28m.24s., iScSPZ? = +28m.45s., iPKKPZ =
 +29m.45s., iSKKPZ = +33m.40s., iPKPPKPZ = +37m.26s.
 Mount Wilson iPKPZ = +18m.31s., iPPZ = +18m.53s., iPKKPZ = +29m.45s.,
 iSKKPZ = +33m.39s., iPKPPKPZ = +37m.27s.
 Paris PP = +19m.7s., S = +26m.42s., PS = +28m.24s.
 Stonyhurst iPS = +28m.25s.
 Kew iPPZ = +19m.8s., iZ = +19m.32s., eEN = +23m.37s., iPS = +28m.27s.,
 iPPS = +29m.32s., eSSEN = +35m.35s., eSSSN = +39m.27s.
 Riverside ePPEN = +19m.4s.
 Oxford e = +18m.54s. and +23m.42s., i = +28m.28s.
 Bozeman e = +45m.54s.
 La Jolla iPKPZ = +18m.33s., iPP = +19m.9s., ePKKPZ = +29m.28s.
 Jersey iPP? = +21m.41s., iPPP? = +23m.52s., e = +34m.54s.
 Rathfarnham Castle PP = +19m.21s., i = +27m.2s. and +28m.33s.
 Barcelona PP = +21m.55s.
 Algiers ePP = +19m.16s., iPP = +19m.49s., SS = +29m.18s.
 Tucson ePKP = +18m.42s., iPP = +19m.47s., ePS = +29m.19s., e = +29m.41s.,
 eSS = +35m.48s., e = +36m.52s., eSSS = +40m.12s.
 Ivigtut SKKS = +26m.48s., PS = +29m.30s., SS = 35m.42s.
 Granada iPS = +29m.57s.
 San Fernando ePKP = +21m.51s., PS = +34m.10s.
 Chicago ePP = +20m.49s., e = +30m.32s., eSS = +37m.55s., SSS = +43m.19s.,
 eL = +62m.42s.
 Florissant ipPKPZ = +19m.26s., iPP = +21m.0s., ipPPEZ = +21m.22s.,
 eSKPN = +21m.33s., ePPPZ = +23m.53s., epPPP = +24m.11s., ipPPPZ =
 +24m.14s., iSKKSEN = +27m.45s., iSN = +29m.16s., esSN = +29m.50s.,
 iPPSZ = +32m.40s.
 St. Louis epPKPE = +19m.22s., ePPE = +21m.0s., ipPPE = +21m.23s.,
 eSKPE = +22m.34s., eSPE = +32m.30s.
 Ann Arbor eE = +31m.36s., eE = +38m.36s.
 Ottawa PP = +21m.14s., SKP = +22m.28s., i = +22m.48s., PS = +31m.41s.,
 eE = +35m.44s., SSN = +38m.54s.
 Toronto PP = +21m.11s., SKP = +22m.35s., PS = +31m.10s., PPS = +33m.8s.,
 SS = +39m.3s.
 Buffalo iSKP = +21m.19s., i = +23m.27s.
 Tacubaya iSKPN = +22m.35s.
 Vermont e = +21m.16s. = PP - 1s., ePP = +21m.46s., iPKS = +22m.36s.,
 i = +23m.4s.
 Ithaca iSKP = +22m.38s., iEN = +23m.2s.
 Oak Ridge iZ = +19m.38s. and +21m.22s., iPS = +21m.43s., iE = +22m.6s.,
 ePPSZ = +33m.10s., eE = +40m.18s.
 Weston PP = +21m.41s., SKP = +22m.48s., PKP = +22m.54s., SKKP =
 +32m.8s.
 Fordham ipP = +19m.30s., iSKP = +21m.42s., i = +22m.45s., e = +31m.49s.
 Philadelphia ePP = +21m.41s., iPKS = +22m.45s., eSS = +39m.17s., e =
 +54m.46s.
 Columbia e = +21m.56s., SKP = +22m.52s., e = +29m.38s., e = +57m.42s.
 Huancayo e = +20m.7s., ePKP₂ = +20m.25s., e = +20m.51s. and +21m.7s.,
 SKP = +23m.35s., e = +31m.38s., PSKS = +34m.36s., SS = +44m.47s.,
 e = +64m.12s.
 San Juan PKP₂ = +20m.19s., i = +20m.47s., e = +21m.26s. and +24m.41s.,
 SKS = +26m.42s., PPP = +27m.19s., e = +27m.36s. and +33m.27s.,
 PSKS = +34m.45s., e = +39m.6s., SS = +44m.20s., SSS = +50m.20s.
 Long waves were also recorded at Durham,

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Oct. 5d. 10h. 9m. 9s. Epicentre $47^{\circ}4N$. $14^{\circ}7E$. (as on Oct. 4d.).

X.

$$A = +.6547, B = +.1718, C = +.7361; \quad \delta = -1.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Graz	0.6	122	i 0 4	- 5	—	—	0.1
Vienna	1.4	53	i 0 26	+ 6	i 0 50	+14	—
Zagreb	1.8	151	i 0 24	- 2	i 0 28	-18	0.8
Prague	2.7	356	e 1 1	+22	e 1 33	S_g	1.7
Ravensburg	3.5	279	—	—	e 1 41	S^*	—
Chur	3.6	264	e 0 54	+ 3	e 1 42	S^*	—
Stuttgart	3.9	291	—	—	e 1 56	S^*	—
Jena	4.1	331	—	—	e 2 1	S^*	2.4
Zurich	4.1	272	e 1 5	P^*	e 2 14	S_g	—
Basle	4.8	275	e 1 4	- 4	—	—	—

Additional readings:—

Ravensburg $eS_g = +1m.53s.$

Chur $eP_g = +1m.1s.$

Stuttgart $iS_gE = +2m.9s., i = +2m.16s.$

Jena $e = +2m.8s., eN = +2m.14s.$

Zurich $eP_g = +1m.17s.$

Basle $e = +1m.12s.,$ and $+1m.43s.$

Oct. 5d. Readings also at 0h. (near Wellington), 1h. (Belgrade and Tortosa), 5h. (Nagoya and near Mizusawa), 6h. (Batavia, near Malabar and Nagoya), 7h. (near Algiers), 9h. (Heizyo), 11h. (near Santiago), 13h. (near Amboina and near Samarkand), 14h. (Samarkand), 16h. (near New Plymouth), 17h. (near Samarkand), 20h. (Sverdlovsk (2), Tashkent, Tifis, Manila, near Mizusawa, Nagoya, Berkeley, Branner, and Lick), 21h. (Alicante, Baku, and Tashkent), 22h. (Branner, Lick, Baku, and near Fresno).

Oct. 6d. Readings at 2h. (La Paz), 3h. (near Wellington), 12h. (Berkeley (2), Branner (2), Lick, and Fresno (4)), 14h. (Andijan, Frunse, Samarkand, and near Nagoya), 15h. (Balboa Heights and Medan), 17h. (Sverdlovsk), 19h. (near Nagoya), 20h. (near New Plymouth and Wellington (2)), 21h. (Tifis (2), and near Malabar), 22h. (near Erevan and Tifis).

Oct. 7d. 3h. 1m. 40s. Epicentre $23^{\circ}5N$. $123^{\circ}2E$. (as on 1935 May 3d.).

X.

$$A = -.5021, B = +.7674, C = +.3987; \quad \delta = -3;$$

$$D = +.837, E = +.548; \quad G = -.218, H = +.334, K = -.917.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2.1	315	e 0 30	0	0 49	- 5	—	1.2
Nanking	9.4	335	e 2 6	- 7	e 4 30	S^*	4.8	—
Phu-Lien	15.5	263	e 6 30	S	(e 6 30)	+ 3	—	—
Chiufeng	17.6	342	e 3 58	- 4	7 13	- 2	—	11.3
Vladivostok	20.9	18	—	—	e 8 2	-22	e 11.8	14.1
Tashkent	48.0	306	—	—	e 15 18	-15	e 25.3	31.2

Additional readings:—

Phu-Lien $eS = +8m.38s.$

Tashkent $e = +18m.44s.$

Long waves were also recorded at Hong Kong, Pulkovo, Ksara, Copenhagen, De Bilt, Uccle, Strasbourg, and Stuttgart.

Oct. 7d. Readings also at 0h. (Tifis, near Santiago), 1h. (near Medan (2)), 2h. (Sverdlovsk and Santiago), 3h. (Berkeley, Branner, San Francisco, near Fresno, Lick, and near Nagoya), 4h. (Nagoya, Mizusawa, Tashkent, Vladivostok, Sverdlovsk, Mount Wilson, Pasadena, and Tinemaha), 5h. and 6h. (near Sumoto), 8h. (Samarkand), 9h. (Batavia), 11h. (Philadelphia), 14h. (Philadelphia and near Reykjavik), 15h. (Berkeley, Branner, Fresno, San Francisco, and near Lick), 16h. (near Reykjavik (2)), 17h. (Colombo, Kodalkanal, Ksara, Sverdlovsk, Tifis, and Tashkent), 19h. (Berkeley), 21h. (Mount Wilson, Pasadena, and Tinemaha).

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Oct. 8d. 20h. 27m. 55s. Epicentre $35^{\circ}2'N$. $140^{\circ}7'E$. (as on 1935 June 10d.). R.3.

$$A = -.6323, B = +.5176, C = +.5764; \quad \delta = -5;$$

$$D = +.663, E = +.774; \quad G = -.446, H = +.365, K = -.817.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Kiyosumi	0.3	261	0 7 ^k	+ 3	0 15	+ 7	—
Kamakura	0.9	277	0 12	- 1	0 25	S*	—
Komaba	0.9	298	0 14	+ 1	0 29	+ 6	—
Tokyo Cent. Bur.	0.9	302	0 14	+ 1	0 26	+ 3	0.5
Tokyo Imp. Univ.	0.9	302	0 12	- 1	0 26	+ 3	—
Mitaka	1.0	296	0 16	+ 2	0 31	+ 5	—
Tukubasan	1.1	336	0 14	- 2	0 27	- 1	—
Susaki	1.5	249	0 20	- 1	0 37	- 2	—
Nagoya	3.0	270	e 0 44	+ 1	1 27	S*	2.0
Mizusawa	4.0	5	e 1 8	P*	2 0	S*	—

Oct. 8d. Readings also at 0h. (near Santiago and San Javier), 3h. (Tifis, Simferopol, Yalta, Sofia, and near Bucharest), 4h. (Baku, Tifis, Tashkent, Sverdlovsk, Pulkovo, Copenhagen, De Bilt, Uccle, Stuttgart, Paris, and Strasbourg), 5h. (Medan), 6h. (Nanking, near Sumoto, and Nagoya), 9h. (near Soengei Langka), 10h. (Ksara, Tashkent, Sverdlovsk, and Tifis), 11h. (Montezuma, near Tucson (3) and near Nagoya), 12h. (Sumoto and near Tucson), 13h. (Sverdlovsk, Vladivostok, Tashkent, and near Tucson), 14h. (Tifis), 15h. (Santiago and near Tucson), 16h. (Baku, Tashkent, Sverdlovsk, Piatigorsk, La Paz, Tifis, Ksara, near Eerevan, Grozny, and near Samarkand), 17h. (La Plata, Mount Wilson, Pasadena, and Ksara), 18h. (near Tucson), 19h. (near Mizusawa), 20h. (Tucson), 21h. (Sverdlovsk, Tashkent, Vladivostok, Frunse, Tifis, Pasadena, Mount Wilson, and near Andijan), 22h. (Tashkent), 23h. (Sverdlovsk).

Oct. 9d. 1h. 16m. 5s. Epicentre $36^{\circ}3'N$. $139^{\circ}2'E$. (as on 1932 Aug. 14d.). X.

$$A = -.6101, B = +.5266, C = +.5920; \quad \delta = -1;$$

$$D = +.653, E = +.757; \quad G = -.448, H = +.387, K = -.806.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Tukubasan	0.7	97	0 8	- 2	0 14	- 4	—
Komaba	0.8	149	0 10	- 1	0 19	- 2	—
Tokyo Imp. Univ.	0.8	144	0 12	+ 1	0 20	- 1	—
Kamakura	1.0	164	0 16	+ 2	0 30	+ 4	—
Kiyosumi	1.4	142	0 19	- 1	0 34	- 2	—
Nagoya	2.1	238	e 0 43	P _r	1 14	Ss	1.4
Mizusawa	E. 3.2	28	e 0 54	P*	1 27	+ 5	—

Oct. 9d. Readings also at 0h. (Nagoya, near Kobe, and Sumoto), 4h. (Taihoku and Nanking), 5h. (Sverdlovsk and Tashkent), 6h. (Nanking and Phu-Lien), 7h. (near Tucson), 9h. (near Granada), 10h. (Butte), 13h. (Manzanillo and Tacubaya (2)), 15h. (Piatigorsk, near Grozny, Erevan, and Tifis), 16h. (Scoresby Sund), 17h. (Balboa Heights, Chiufeng, Mizusawa, Nagoya, Nanking, Sverdlovsk, and Tifis), 18h. (Baku, Copenhagen, Tashkent, Mount Wilson, Pasadena, and Tucson), 19h. (Bucharest, Copenhagen, Sofia, Ksara, and Tifis).

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Oct. 10d. 1h. 25m. 32s. Epicentre 40°·3N. 126°·0W. (as on 1936 June 3d.). R.3.

A = -·4483, B = -·6170, C = +·6468; $\delta = +1$;
D = -·809, E = +·588; G = -·380, H = -·523, K = -·763.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ferndale		1·4	79	e 0 20	0	e 0 46	+10	—	—
San Francisco		3·7	132	i 0 52	- 1	—	—	—	—
Berkeley		3·8	128	e 0 52	- 2	e 1 9	-28	—	—
Branner		4·1	132	i 0 57	- 1	e 1 48	+ 3	—	—
Lick		4·5	129	e 1 3	- 1	—	—	—	—
Fresno	N.	6·0	124	e 1 27	+ 2	—	—	—	—
Tinemaha	N.	6·8	115	e 1 42	+ 5	i 2 51	- 2	—	—
Haiwee		7·5	121	e 1 59	+13	—	—	—	—
Mount Wilson	Z.	8·8	131	i 2 5	0	i 3 55	+11	—	—
Pasadena		8·8	132	i 2 2	- 3	i 3 49	+ 5	e 4·7	—
Tucson		14·6	119	e 3 16	- 7	e 6 35	+30	e 8·1	—
Little Rock		27·1	92	e 5 36	- 3	e 10 1	-16	e 16·5	—
Madison		27·2	71	i 5 40	0	e 16 52	ScS	—	—
Florissant		27·3	82	e 5 39	- 2	e 10 25	+ 5	e 15·1	19·4
St. Louis	E.	27·5	82	e 4 41	-62	e 9 41	-43	—	—
Philadelphia		38·3	74	e 7 40	+22	e 13 15	+ 4	e 20·8	—
Scoresby Sund		56·8	23	—	—	16 28?	-66	28·5	—
Sverdlovsk		82·7	356	i 12 22	0	—	—	43·5	—

Additional readings :—

Ferndale eE = +37s., eE = +39s., eN = +2m.12s.

Berkeley iEN = +57s., eN = +1m.0s., eZ = +1m.2s., eN = +1m.4s., eE = +1m.6s.

Branner iN = +1m.40s., iEN = +1m.50s., iN = +2m.58s.

Tinemaha iN = +3m.35s.

Tucson i = +3m.25s.

Little Rock eEN = +5m.49s., iEN = +5m.55s., eN = +10m.27s.

Florissant iEN = +6m.8s., eE = +11m.49s.

St. Louis eE = +4m.46s.

Philadelphia e = -13s., e = +59s., e = +19m.33s., e = +20m.23s.

Long waves were also recorded at Ukiah, Sitka, Butte, Bozeman, Columbia, and Copenhagen.

Oct. 10d. 3h. 8m. 25s. Epicentre 7°·5N. 126°·0E. (as on 1935 June 1d.). R.2.

A = -·5828, B = +·8021, C = +·1305; $\delta = +5$;
D = +·809, E = +·588; G = -·077, H = +·106, K = -·991.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Palau		8·4	91	1 43	+16	2 53	-41	—	—
Manila		8·6	326	2 5	+ 3	4 5	+26	—	—
Hong Kong		18·7	324	4 20	+ 5	7 46	+ 6	9·7	13·1
Phu-Lien		23·0	307	e 5 6	+ 5	e 9 28	+23	—	—
Batavia	Z.	23·8	236	5 8	0	—	—	—	—
Zi-ka-wei	Z.	24·1	350	5 11	0	9 37	+12	—	26·5
Kagosima		24·4	8	5 3	-11	—	—	—	—
Miyazaki		25·0	10	5 16	- 4	—	—	—	—
Nagasaki		25·5	16	5 22	- 3	—	—	—	—
Nanking		25·5	346	e 5 20	- 5	10 5	+15	—	—
Hukuoka B		26·4	9	e 5 31	- 2	e 10 49	+44	—	—
Medan		27·5	263	e 5 51	+ 8	10 9	-15	—	—
Taikyu		28·4	354	—	—	e 10 48	+10	—	—
Keizyo	E.	30·1	3	—	—	e 10 56	-10	—	—
Oiwake		31·0	20	5 53	-21	—	—	—	—
Nagano		31·2	19	6 5	-11	—	—	—	—
Vladivostok		35·9	7	i 6 55	- 2	e 12 27	- 8	19·1	27·0
Calcutta	N.	39·2	298	—	—	e 13 42	+18	—	—
Perth		40·6	193	12 35?	S	(12 35?)	-70	—	—
Kodaikanal	E.	48·0	278	e 8 35?	- 1	—	—	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bombay	52.8	290	c 9 35?	+23	—	—	—	—
Frunse	57.2	318	c 9 35	-10	—	—	—	—
Andijan	57.9	315	c 10 11	+21	—	—	—	—
Tashkent	60.3	315	e 10 8	+ 1	i 18 28	+ 8	c 31.3	40.5
Samarkand	61.5	315	c 9 53	-22	—	—	—	—
Sverdlovsk	70.4	329	i 11 23	+10	i 20 38	+12	33.6	40.0
Baku	74.6	311	—	—	c 21 25	+10	37.6	—
Tiflis	78.5	311	12 0	0	e 22 0	+ 1	44.6	58.4
Moscow	82.9	325	12 23	0	22 40	- 6	37.1	52.5
Ksara	86.0	305	i 12 39a	+ 1	23 24	+ 6	—	56.6
Yalta	86.0	316	—	—	c 21 56	[-70]	—	—
Pulkovo	86.4	330	12 36	- 4	c 23 11	[+ 2]	46.6	54.0
Copenhagen	96.6	330	—	—	24 8	[- 1]	51.6	—
Scoresby Sund	99.0	350	—	—	24 17	[- 4]	57.6	—
Huancayo	158.5	104	c 20 35	{- 2}	e 30 53	{-17}	c 75.6	—

Additional readings :—

Keizyo eSE? = +17m.33s.

Tiflis eE = +12m.48s., ePPZ = +14m.59s. = PP + 8s., ePPPZ = +17m.14s.,

SKKSE = +22m.54s., eN = +32m.8s.

Ksara PPPP = +19m.57s.

Copenhagen +31m.59s.

Huancayo e = +21m.53s.

Long waves were also recorded at Stuttgart, Kew, De Bilt, Strasbourg, Uccle, and Paris.

Oct. 10d. Readings also at 0h. (Oak Ridge), 1h. (Bozeman, Berkeley, Butte, Tucson, Ferndale, Florissant, and Ukiah), 2h. (Tacubaya, Graz, La Paz, Samarkand, Tashkent, and near Andijan), 3h. (near Mizusawa and Nagoya), 5h. (Apia), 6h. (Santiago, Hong Kong, and Manila), 8h. (Santiago), 11h. (Huancayo and near La Paz), 12h. (Sverdlovsk and Tashkent), 14h. (Sebastopol, Simferopol, Theodosia, near Yalta, and near Hukuoka B), 17h. (Mizusawa, near Christchurch, and Wellington), 18h. (Graz, Tashkent, Sverdlovsk, Berkeley, Branner, Lick, San Francisco, Tucson, Kobe, near Nagoya, and Sumoto), 19h. (Branner and Lick), 20h. (Branner), 22h. (Huancayo, La Paz, and Kobe).

Oct. 11d. Readings at 1h. (near Christchurch, Wellington, and near Samarkand), 3h. (Kew and near Wellington), 5h. (Manzanillo), 8h. (Bucharest), 12h. (Ksara, Tiflis, Christchurch, and Wellington), 13h. (near Nanking), 16h. (Helwan, Ksara, Baku, Tiflis, Grozny, Sverdlovsk, and Tashkent), 17h. (near Mizusawa), 20h. (near Balboa Heights), 22h. (Medan).

Oct. 12d. Readings at 0h. (Guadalajara, Tiflis, and Tucson), 5h. (Mizusawa, Simferopol, Theodosia, Yalta, and near Santiago), 6h. (Apia, Christchurch, and Huancayo), 7h. (Riverview, Wellington, Haiwee, Mount Wilson (2), Pasadena (2), Tinemaha (2), College, Tucson (2), Tashkent, Sverdlovsk, Ksara, Simferopol, Theodosia, Yalta, and Jena), 8h. (Honolulu, Baku, Sverdlovsk, Tiflis, Pulkovo, Copenhagen, De Bilt, and Stuttgart), 9h. (Christchurch, Apia, Haiwee, Mount Wilson, Pasadena, Tinemaha, Tucson, Ksara, and near Santiago), 10h. (Mount Wilson, Pasadena, Baku, Sverdlovsk, Frunse, Samarkand, Tchinkent, and near Andijan), 11h. (Mizusawa), 12h. (Tucson and Wellington), 13h. (Fresno and near Tucson), 15h. (Medan (2)), 17h. (Fresno and near Tucson), 18h. (near Balboa Heights), 21h. (Tucson and Ukiah), 22h. (San Juan), 23h. (Batavia, Hong Kong, and Medan).

Oct. 13d. 6h. 32m. 31s. Epicentre $1^{\circ}5'N$. $126^{\circ}4'E$. (as on 1936 Oct. 5d.). R.2.

$$A = -.5932, B = +.8046, C = +.0262; \quad \delta = -5.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Palau	9.9	54	2 28	+ 9	4 17	+ 6	—	—
Manila	14.2	338	3 28	+10	6 7	+11	—	—
Batavia	21.0	248	4 41	+ 1	8 31	+ 5	e 13.5	—
Hong Kong	24.0	331	5 10	0	9 20	- 3	—	15.0
Phu-Lien	27.3	316	e 5 40	- 1	e 10 13	- 7	13.5	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	27.7	275	5 42	- 2	i 11 13	+46	e 17.5	—
Zi-ka-wei	z. 30.1	352	e 6 4	- 2	—	—	18.4	20.0
Nanking	31.4	347	6 19	+ 2	—	—	—	—
Nagoya	35.1	15	e 6 50	0	—	—	—	—
Gihu	35.2	15	6 50	- 1	—	—	—	—
Hunatu	35.9	18	6 58	+ 1	—	—	—	—
Kohu	36.0	18	6 58	0	—	—	—	—
Oiwake	36.7	18	7 3	- 1	—	—	—	—
Nagano	36.8	15	7 4	- 1	—	—	—	—
Hukusima	38.5	19	7 19	0	—	—	—	—
Chiufeng	39.7	347	e 6 59	-30	13 0	-32	—	—
Mizusawa	40.0	19	(e 7 30)	- 2	e 7 30	P	—	—
Vladivostok	41.9	7	e 7 47	- 1	e 14 5	0	20.5	28.9
Calcutta	N. 42.5	304	e 11 42	?	e 17 41	SSSS	—	—
Melbourne	42.9	159	—	—	e 16 13	?	—	29.5
Colombo	46.7	278	14 24	S	(14 24)	-50	—	29.9
Kodaikanal	E. 49.4	283	e 8 29?	-18	—	—	—	—
Bombay	55.2	293	e 9 29?	- 1	—	—	—	—
Frunse	61.9	319	e 10 5	-13	—	—	—	—
Andijan	62.5	317	e 10 20	- 2	e 18 44	- 4	—	—
Tashkent	64.9	317	e 10 24	-14	e 19 5	-14	e 28.1	62.4
Sverdlovsk	75.7	329	i 11 54	+10	i 21 27	- 1	35.0	45.7
Baku	78.8	312	e 12 11	+10	e 21 55	- 8	39.5	48.0
Tifis	82.7	312	e 12 20	- 2	e 22 29	-15	42.5	54.1
Ksara	89.6	303	i 12 54	- 2	e 23 40	-12	—	—
Pasadena	z. 109.9	53	e 18 20	[+ 21]	—	—	—	—
Mount Wilson	z. 110.0	53	e 18 29	[+11]	—	—	—	—
Tucson	116.3	53	e 18 42	[+ 6]	—	—	e 51.9	—

Additional readings :—

Batavia ePEN = +4m.45s., iN = +9m.36s.

Hong Kong SS = +10m.41s.

Medan iP = +5m.49s.

Chiufeng iE = +13m.37s.

Mizusawa ePE = +6m.27s.

Tashkent SS = +23m.41s.

Ksara ePP = +16m.22s., eSS = +29m.32s.

Long waves were also recorded at Perth, Christchurch, Wellington, Huancayo, Pulkovo, and other European stations.

Oct. 13d. Readings also at 0h. (Tucson), 1h. (Frunse, near Andijan, and near Samarkand), 4h. (near Andijan and near Berkeley), 10h. (Tananarive, Branner, San Francisco, near Berkeley, Lick, and near Samarkand), 12h. (Branner, Berkeley, Fresno, and Sofia), 19h. (Mount Wilson, Pasadena, La Paz, and Tifis), 20h. (Ksara and Samarkand).

Oct. 14d. 22h. 15m. 27s. Epicentre 20°-1S. 169°-4E. (as on 1931 Oct. 23d.). X.

A = -.9231, B = +.1727, C = -.3437; $\delta = +7$;

D = +.184, E = +.983; G = +.338, H = -.063, K = -.939.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	21.2	226	e 4 45	+ 3	i 8 42	+12	e 10.2	11.8
Sydney	21.2	226	e 4 38	- 4	e 8 41	+11	11.3	13.0
Wellington	21.7	171	i 4 55	+ 7	i 10 51	?	—	11.6
Christchurch	23.6	174	—	—	(9 25)	+ 9	9.4	12.2
Melbourne	27.6	225	e 6 0	+16	10 28	+ 3	13.3	15.2
Adelaide	30.9	235	e 5 15	?	e 12 9	+51	e 16.6	20.0
Batavia	62.2	275	10 23	+ 3	18 41	- 4	—	—
Vladivostok	72.0	334	e 11 19	- 4	—	—	—	—
Pasadena	87.7	52	i 12 47	+ 1	—	—	e 39.6	—
Mount Wilson	z. 87.8	52	i 12 46	- 1	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tinemaha	Z. 88.9	49	e 12 51	- 1	—	—	—	—
Tucson	92.4	57	e 13 9	0	—	—	e 42.0	—
Kodaikanal	E. 95.2	279	e 19 33?	PPP	—	—	—	—
Bombay	E. 102.3	286	e 17 33?	PP	—	—	—	—
Tashkent	110.5	309	e 19 6	PP	e 26 39	{+29}	e 49.6	68.2
Sverdlovsk	116.9	325	—	—	e 29 51	SKSP	51.6	—
Ksara	136.8	298	e 18 54	[-24]	—	—	—	—
Vienna	144.5	329	e 19 31	[- 2]	—	—	—	—
Jena	N. 144.6	335	e 19 33	[0]	—	—	—	—
Göttingen	E. 144.7	339	i 19 34	[+ 1]	—	—	—	—
Uccle	147.1	344	e 19 41	[+ 4]	—	—	e 74.6	—
Stuttgart	147.3	337	e 19 42 _a	[+ 4]	—	—	e 77.6	—
Kew	147.6	349	e 20 3	[+25]	—	—	e 75.6	—
Strasbourg	148.0	338	e 19 45	[+ 6]	—	—	e 73.6	—
Chur	148.6	334	e 19 41 _a	[+ 1]	—	—	—	—
Zurich	148.6	334	e 19 40 _a	[0]	—	—	—	—
Basle	148.9	336	e 19 45	[+ 5]	—	—	—	—
Neuchatel	149.6	337	e 19 47	[+ 6]	—	—	—	—

Additional readings :—

Riverview eN = +4m.51s., iE = +9m.2s.

Christchurch iZ = +9m.45s.

Adelaide i = +13m.56s. and +14m.52s., eE = +16m.9s.

Mount Wilson eZ = +16m.15s., iZ = +36m.13s.

Tinemaha eZ = +16m.57s.

Tashkent e = +35m.45s.

Ksara ipPKP = +19m.26s., ePP = +21m.47s., epPP = +22m.11s., esPP = +33m.59s.

Vienna iPZ = +19m.35s.

Jena iE = +19m.45s.

Göttingen iE = +19m.39s., eE = +19m.49s. and +19m.58s.

Stuttgart iZ = +19m.56s.

Chur e = +19m.45s.

Zurich i = +19m.45s.

Long waves were also recorded at Perth, Baku, Tifis, Pulkovo, Copenhagen, De Bilt, Paris, Granada, and Bozeman.

Oct. 14d. Readings also at 1h. (De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Alicante, Almeria, Granada, and San Fernando), 2h. (Granada), 10h. (Sofia), 12h. (Lick), 13h. and 14h. (2) (Oak Ridge), 15h. (Bucharest and near Sofia), 18h. (Baku, Tashkent, Ksara, and Sverdlovsk), 19h. (Frunse, Semipalatinsk, Tashkent, and Vladivostok), 20h. (Frunse (2), Tashkent, Tchimkent, Sverdlovsk, near Andijan (2), and Samarkand), 21h. (Sumoto), 22h. (near Nagoya).

Oct. 15d. 4h. 20m. 0s. Epicentre 32°·4N. 133°·0E. N.3.

A = -·5758, B = +·6175, C = +·5358; δ = -7;

D = +·731, E = +·682; G = -·365, H = +·392, K = -·844.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Hukuoka	2.5	298	e 0 33	- 3	e 0 58	- 6	—
Hukuoka B	2.5	298	0 36	0	1 0	- 4	—
Sumoto	E.N. 2.5	41	0 35	- 1	1 0	- 4	1.1
	Z. 2.5	41	e 0 37	+ 1	e 1 8	+ 4	1.1
Kobe	E. 2.9	39	e 0 44	+ 3	e 1 12	- 2	1.3
	N. 2.9	39	e 0 38	- 3	e 1 10	- 4	1.3
	Z. 2.9	39	e 0 40	- 1	e 1 9	- 5	1.3
Toyooka	3.5	25	0 47	- 3	1 18	-12	1.5
Nagoya	4.3	48	e 1 1	0	1 56	+ 6	—
Taikyu	5.0	315	e 1 2	- 9	2 1	- 7	—

Toyooka gives also ePE = +50s.

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Oct. 15d. 21h. 8m. 43s. Epicentre 36°·8S. 72°·3W. N.3.
(Epicentre Conception Chile).

A = +·2434, B = -·7628, C = -·5990; $\delta = -9$;
D = -·952, E = -·304; G = -·182, H = +·571, K = -·801.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Javier	1·2	22	0 14	- 3	0 44	+13	—	—
Santiago	3·6	23	0 47	- 4	1 47	S*	—	—
La Plata	11·8	85	2 57	+11	5 11	+13	6·1	—
La Paz	20·7	13	4 53	+16	i 8 48	SS	11·4	13·6
Huancayo	24·9	354	e 5 18	- 1	9 50	+11	12·4	—
Rio de Janeiro	28·6	69	i 5 56	+ 3	i 11 7	+25	i 15·1	—
San Juan	55·5	8	e 9 27	- 5	17 13	- 3	e 27·5	—
Philadelphia	76·8	358	e 11 17	-33	—	—	—	—
Tucson	77·9	328	e 11 54	- 3	e 21 48	- 5	e 37·7	—
Mount Wilson	z. 82·8	323	e 12 19	- 3	—	—	—	—
Pasadena	82·8	323	e 12 20	- 2	i 22 6	-39	i 40·4	—
Granada	97·5	48	e 17 36	PP	—	—	53·8	—
Paris	108·2	43	e 14 17?	- 5	—	—	56·3	67·3
Strasbourg	111·0	45	e 18 17?	[- 4]	—	—	e 52·3	—
Stuttgart	111·9	45	—	—	e 30 17?	?	e 59·3	—
Helwan	117·5	72	e 19 57	PP	e 29 57	?	—	73·6
Ksara	122·8	71	i 20 35	PP	e 25 53	[- 6]	—	—
Tifis	132·1	64	e 21 34	PP	e 25 30	[-55]	e 66·3	82·1
Baku	135·5	67	e 20 57	?	e 29 37	{+41}	68·3	83·5
Kodaikanal	E. 141·9	126	e 22 17?	PP	—	—	—	—
Sverdlovsk	143·1	42	i 19 43	[+15]	—	—	69·3	83·0
Bombay	144·6	111	i 19 41	[+ 8]	—	—	—	82·7
Tashkent	150·1	69	i 19 23	[-19]	—	—	e 72·5	90·3
Andijan	152·4	71	e 20 20	[+35]	—	—	—	—
Frunse	154·0	66	e 20 22	[+35]	—	—	—	—

Additional Readings :—

La Paz iSN = +8m.52s.
Huancayo P = +5m.25s., e = +5m.44s., PP = +5m.49s., e = +6m.1s., PPP = +6m.20s., e = +9m.55s., +9m.59s., +10m.3s., and +10m.41s.
San Juan e = +17m.2s., ePS = +17m.26s.
Philadelphia e = +24m.12s., eSS = +26m.42s.
Tucson eSS = +26m.47s.
Mount Wilson eZ = +13m.21s.
Pasadena iZ = +13m.19s., eSN? = +21m.9s.
Helwan e = +22m.42s., PPP = +25m.37s. = SKS - 5s.
Ksara PPP = +23m.17s.?, eSKKS = +27m.30s., ePPS = +31m.58s.
Tifis eN = +22m.4s., eZ = +22m.38s. = PKS - 5s.
Baku e = +22m.57s., +34m.9s., +43m.29s., +52m.5s., and +58m.29s.
Sverdlovsk i = +22m.59s., e = +31m.55s., and +35m.27s.
Tashkent e = +20m.16s., +23m.25s., e = +25m.31s., +28m.19s., and +36m.52s.
Andijan e = +24m.18s.
Long waves were also recorded at Bozeman, Pulkovo, Vladivostok, and other European stations.

Oct. 15d. Readings also at 0h. (Tucson), 2h. (near Kobe and Sumoto), 3h. (Ksara, Tucson, Haiwee, Mount Wilson, Pasadena, Santa Barbara, Piatigorsk, near Grozny, Erevan, Tifis, and near Apia), 7h. (La Paz), 9h. (Andijan), 12h. (Florence), 13h. (Florence and near Sochi), 14h. (near Htikuoka B), 15h. (Mizusawa), 17h. (near Erevan, Tifis, and Florence), 19h. (Tacubaya), 20h. (Christchurch, Sebastopol, Simferopol (2), Theodosia (2), Yalta, Grozny, Piatigorsk, and near Sochi), 21h. (Riverview, Mount Wilson, Pasadena, and Tucson), 22h. (Tucson).

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Oct. 16d. 11h. 56m. 38s. Epicentre 6°·5S. 151°·0E. (as on 1935 Sept. 19d.). R.2.

$$A = -.8690, B = +.4817, C = -.1132; \quad \delta = +1;$$

$$D = +.485, E = +.875; \quad G = +.099, H = -.055, K = -.994.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	27.3	180	i 5 45a	+ 4	e 10 26	+ 6	e 13.6	15.7
Sydney	27.3	180	e 10 26	S	(e 10 26)	+ 6	15.0	15.4
Adelaide	30.6	200	e 5 59	-11	i 11 32	+18	—	18.9
Melbourne	31.8	189	—	—	i 11 45	+13	14.8	18.2
Manila	36.5	305	i 7 11a	+ 9	13 29	+45	19.9	—
Wellington	40.7	153	—	—	13 34	-13	19.8	24.0
Christchurch	41.6	156	7 38k	- 7	13 47	-13	18.6	21.6
Perth	42.7	228	10 7	PPPP	i 14 22	+ 6	23.4	30.4
Batavia	43.9	268	i 8 8	+ 4	i 14 4	-30	—	—
Hong Kong	46.1	310	8 26	+ 5	15 22	+16	—	24.6
Zi-ka-wei	z. 47.1	325	8 29	0	15 25	+ 5	—	25.2
Nanking	49.3	323	i 8 44	- 2	i 15 45	- 6	20.8	—
Vladivostok	52.6	343	e 9 6	- 5	i 16 22	-15	22.4	26.9
Medan	53.2	280	e 9 26	+11	16 6	-39	—	—
Honolulu	57.3	60	—	—	e 16 52	-48	25.4	—
Colombo	72.2	279	11 29	+ 5	21 3	+16	—	—
Kodaikanal	E. 75.1	283	e 11 22?	-19	—	—	—	—
Hyderabad	75.6	290	11 46	+ 2	21 36	+ 9	—	—
Agra	E. 78.0	300	i 11 56	- 1	i 21 57	+ 3	—	—
Bombay	81.0	290	i 12 18	+ 5	i 22 33	+ 7	38.4	—
Semipalatinsk	83.0	323	e 12 21	- 2	22 34	[-10]	—	—
College	84.2	22	—	—	e 21 58	[-55]	e 33.5	—
Frunse	84.6	314	e 12 25	- 6	e 22 30	[-26]	—	—
Andijan	85.7	312	e 12 38	+ 1	23 14	- 1	—	—
Tashkent	88.1	312	i 12 48	0	i 23 34	- 4	e 40.4	48.8
Samarkand	89.6	310	12 56	0	23 46	- 6	—	—
Ukiah	90.8	51	e 19 46	PPPP	e 23 28	[- 9]	e 39.5	—
Berkeley	91.4	52	—	—	e 25 22?	?	—	—
Seattle	92.6	43	e 19 10	PPP	e 23 46	[- 2]	e 42.0	—
Santa Barbara	z. 93.1	56	e 13 4	- 8	—	—	—	—
Pasadena	94.3	57	e 12 58	-19	e 33 58	SSS	e 39.9	—
Mount Wilson	z. 94.4	57	i 12 57	-21	—	—	—	—
Tinemaha	N. 94.5	54	e 13 29	+11	—	—	—	—
Riverside	z. 95.0	57	e 13 17	- 3	—	—	—	—
Sverdlovsk	95.7	327	i 13 28	+ 4	e 24 40	- 8	40.4	51.8
Bozeman	100.2	46	—	—	e 23 22?	[-65]	e 40.4	—
Tucson	100.4	58	e 13 46	+ 1	—	—	e 44.0	—
Chicago	117.5	46	—	—	e 29 16	PS	e 53.6	—
Helwan	118.9	300	20 7	PP	—	—	—	—
Ottawa	124.0	39	—	—	e 25 22?	[-40]	e 53.4	—
Columbia	124.8	52	—	—	e 41 28	SSS	—	—
Huancayo	130.3	112	e 19 12	[+ 4]	—	—	e 60.8	—

Additional readings :—

- Riverview eSN = +10m.30s., eN = +10m.55s.
- Sydney iS = +13m.42s.
- Adelaide e = +6m.39s., e = +7m.19s., i = +11m.48s., c = +14m.59s., i = +15m.35s.
- Wellington i = +16m.57s. =SSS -5s.
- Christchurch S_cS = +17m.5s.
- Batavia PEZ = +8m.18s.
- Hong Kong SS = +18m.18s.
- Bombay PSE = +23m.2s.
- College eSS = +28m.22s., eSSS = +31m.40s.
- Tashkent ePP = +16m.52s., PPS = +25m.11s.
- Ukiah e = +21m.52s.
- Pasadena eZ = +13m.11s.
- Mount Wilson iZ = +13m.17s. and +15m.1s.
- Riverside eN = +14m.18s.
- Sverdlovsk PP = +17m.30s., PPS = +26m.25s., SS = +31m.4s.

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Tucson ePP = +17m.20s., ePS = +26m.10s., eSS = +31m.34s., eSSS = +35m.34s., e = +40m.40s.
 Chicago eSS = +35m.39s.
 Ottawa eN = +31m.22s.?
 Huancayo eSKP = +22m.25s., e = +36m.13s., eSS = +38m.3s., eSSS = +43m.3s.
 Long waves were also recorded at Apia, Ksara, Madison, Kew, Copenhagen, Uccle, San Juan, Ivigtut, De Bilt, Rio de Janeiro, St. Louis, Pulkovo, Scoresby Sund, Paris, Strasbourg, Stuttgart, and San Fernando.

Oct. 16d. Readings also at 0h. (near Medan), 1h. and 2h. (Hamburg), 5h. (near San Javier), 6h. (near Chur and Zurich), 15h. (Branner, Lick, and Fresno), 16h. (Huancayo, San Javier, and near Santiago), 19h. (near Mizusawa and Nagoya), 20h. (near Andijan), 22h. (Mount Wilson, Pasadena, and Riverside).

Oct. 17d. 20h. 32m. 22s. Epicentre 34°·0N. 133°·0E. (as on 1935 Dec. 21d.). X.

A = -·5654, B = +·6063, C = +·5592; $\delta = -2$;
 D = +·731, E = +·682; G = -·381, H = +·409, K = -·829.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	1·6	77	0 20 _a	- 3	0 41	0	0·7
Kobe	1·9	69	e 0 29	+ 1	0 50	+ 1	0·9
Toyooka	2·2	44	0 29	- 2	0 55	- 2	1·0
Hukuoka	2·2	259	e 0 37	P _g	1 5	S*	—
Hukuoka B	2·2	259	e 0 36	P _g	1 5	S*	—
Nagoya	3·4	70	e 1 15	P _g	1 44	S _g	—

Oct. 17d. Readings at 0h. (Medan), 2h. (Ravensburg, Stuttgart, Strasbourg, near Basle, Neuchatel, Zurich, and near Berkeley), 4h. (Tucson and near Santiago), 8h. (Mizusawa), 9h. (Frunse, Samarkand, Tchinkent, and near Andijan), 10h. (Tacubaya), 12h. (Mizusawa), 13h. (Tiflis), 14h. and 15h. (near Andijan and Frunse), 18h. (near Apia), 20h. (Fresno), 21h. (Malabar and near Batavia).

Oct. 18d. 3h. 10m. 12s. Epicentre 46°·3N. 12°·5E. (as on 1934 June 8d.). R.2.

A = +·6745, B = +·1495, C = +·7230; $\delta = +3$;
 D = +·216, E = -·976; G = +·706, H = +·156, K = -·691.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Treviso	0·7	199	i 0 2	- 8	i 0 8	-10	—	—
Padova	1·0	206	i 0 10	- 4	i 0 20	- 6	—	—
Laibach	1·4	100	i 0 20	0	i 0 40	S*	—	0·7
Chur	2·1	285	i 0 31	+ 1	i 1 0	S*	—	—
Graz	2·2	69	i 0 29	- 2	i 0 56	- 1	—	1·2
Zagreb	2·4	101	e 0 34	0	i 1 16	S _g	—	1·9
Ravensburg	2·5	307	e 0 37	+ 1	i 1 8	+ 4	—	—
Florence	2·6	200	i-0 12?	-49	—	—	—	—
Zurich	2·9	292	e 0 42	+ 1	e 1 18	+ 4	—	—
Ebingen	3·0	308	e 0 45	+ 2	i 1 37	S _g	—	—
Stuttgart	3·3	318	i 0 49 _k	+ 2	i 1 28	+ 3	i 1·6	2·2
Vienna	3·3	52	i 0 47 _a	0	1 30	+ 5	—	2·3
Basle	3·6	292	e 0 51	0	e 1 36	+ 4	—	—
Cheb	3·8	351	e 0 55	+ 1	e 1 40	+ 3	—	2·6
Karlsruhe	3·8	315	e 0 54	0	1 36	- 1	—	—

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Neuchatel		3.8	282	e 0 54	0	e 1 57	S_g^*	—	—
Prague		4.0	18	0 56	- 1	e 2 0	S_g^*	—	2.5
Strasbourg		4.0	307	i 0 56k	- 1	e 2 11	S_g^*	—	2.3
Budapest		4.7	73	e 1 5	- 2	2 17	S_g^*	2.6	2.7
Jena		4.7	353	i 1 6	- 1	—	—	e 2.0	3.7
Capodimonte	E.	5.5	166	e 1 14	- 4	e 2 18	- 2	—	4.3
Göttingen		5.5	344	i 1 18	0	i 2 30	+10	e 2.6	3.1
Belgrade		5.7	102	e 1 21	0	i 2 29	+ 4	—	4.0
Marseilles		5.9	242	e 1 21	- 3	i 3 3	S_g	—	—
Uccle		7.0	313	e 1 41	+ 2	i 3 8	+ 9	—	—
Paris		7.2	294	i 1 47	+ 5	3 19	+15	3.7	3.8
Hamburg		7.4	349	e 1 47	+ 2	e 3 24	S^*	—	4.8
Lille		7.6	308	1 55	+ 7	i 3 38	S^*	—	—
De Bilt		7.6	324	e 1 52	+ 4	—	—	e 3.8	5.6
Lemberg		8.5	61	—	—	e 3 54	+18	—	7.0
Sofia		8.5	111	e 1 58	- 2	e 4 15	S^*	—	—
Barcelona		8.9	240	—	—	e 5 10	S_g	—	6.5
Bagnères		9.4	254	e 3 10	+57	i 5 16	S_g^*	5.4	—
Copenhagen		9.4	359	2 14	+ 1	4 23	S_g^*	4.8	—
Bucharest	N.	9.7	96	e 2 10	- 7	i 4 43	S^*	6.0	7.6
Kew		9.9	306	e 2 32	+13	i 4 27	+16	6.2	6.6
Jersey		10.2	292	i 2 20	- 4	4 22	+ 4	5.1	5.5
Tortosa	N.	10.3	241	i 2 9	-16	4 16	- 5	5.0	5.9
Oxford		10.5	307	e 2 33	+ 5	—	—	—	5.9
Algiers		11.8	220	e 2 38	- 8	e 4 33	-15	5.8	—
Stonyhurst		12.1	314	—	—	5 48?	S^*	—	—
Bidston		12.2	311	e 2 25	-26	i 4 27	-41	6.2	—
Durham		12.2	320	2 55	+ 4	6 7	S^*	—	6.8
Rathfarnham Castle		13.9	307	i 3 31	+17	i 6 21	+32	7.5	9.6
Upsala		13.9	11	e 3 14	0	e 6 13	+24	e 7.2	8.2
Almeria		14.6	235	i 3 19	- 4	—	—	e 8.5	—
Sebastopol		14.8	89	e 4 47	?	i 9 48	?	—	—
Granada		15.0	238	3 37	+ 9	e 6 35	+20	—	—
Simferopol		15.1	87	e 3 40	+10	e 8 33	?	—	—
Yalta		15.2	89	e 3 44	+13	i 9 49	?	—	—
Theodosia		16.0	86	e 4 8	+27	e 9 26	?	—	—
Pulkovo		17.1	32	i 3 56	+ 1	e 7 19	SSSS	9.1	11.4
San Fernando		17.1	241	e 4 11	+16	i 7 19	SSSS	9.8	—
Moscow		18.2	50	e 4 7	- 2	e 7 37	+ 8	9.6	11.8
Ksara		21.7	118	i 4 45k	- 3	8 44	+ 4	10.5	—
Helwan		22.0	133	4 50	- 1	8 51	+ 5	—	—
Tifis		23.5	90	5 5	0	9 23	+ 9	12.9	14.5
Grozny		23.6	85	e 5 11	+ 5	e 15 31	S_g	—	—
Erevan		23.9	93	e 5 11	+ 2	—	—	—	—
Baku		27.6	89	e 5 41	- 3	e 10 26	+ 1	14.3	19.1
Sverdlovsk		31.0	52	i 6 25	+11	e 11 31	+11	16.9	18.4
Tashkent		40.4	76	e 7 46	+11	e 13 25	-17	e 18.9	26.3
Andijan		42.7	75	e 7 52	- 2	—	—	—	—
Tucson		86.3	315	i 12 38	- 2	—	—	e 46.8	—

Additional readings :—

Laibach $i = +16s.$

Zagreb $i = +41s., iNE = +49s., iNEZ = +55s., i = +59s. \text{ and } +1m.2s., iNWZ = +1m.6s., iNW = +1m.9s., iZ = +1m.11s., iNEZ = +1m.13s.$

Ravensburg $i = +40s., iP_g = +42s., i = +55s., iS_g = +1m.16s., i = +1m.27s.$

Zurich $eP_g = +48s.$

Ebingen $eP_g = +54s., iP_g = +57s.k, i = +1m.22s. \text{ and } +1m.56s.$

Stuttgart $iP^* = +52s., iP_g = +1m.0s., i = +1m.19s., iS^* = +1m.35s., iS_g = +1m.45s.$

Vienna $P^* = +57s., S^* = +1m.44s., iS_g = +1m.56s.$

Basle $eP_g = +1m.1s.$

Cheb $e = +1m.10s. = P_g + 0s.$

Neuchatel $i = +1m.4s. = P^* + 2s., i = +1m.19s.$

Prague $eP_g = +1m.8s., iPP = +1m.42s.$

Strasbourg $iP_g = +1m.9s., PP = +1m.14s. \text{ and } +1m.21s., iPS = +1m.43s.$

Continued on next page.

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Budapest $e = +1m.13s.$, $eE = +1m.23s.$, $P_gN = +1m.25s.$, $P_gE = +1m.27s.$, $e = +1m.43s.$, $iN = +1m.49s.$, $iE = +1m.55s.$, $PPS = +2m.5s.$, $PSE = +2m.15s.$, $i = +2m.25s.$
 Jena $i = +1m.13s.$, $e = +1m.25s.$, $e = +1m.34s.$, $iN = +1m.38s.$
 Göttingen $iP_gNZ = +1m.42s.$, $cLN = +2m.24s.$, $iS_gZ = +2m.50s.$, $iS_gE = +2m.54s.$, $iS_gN = +2m.58s.$
 Belgrade $iP_gNW = +1m.43s.$, $iNW = +1m.55s.$ and $+2m.51s.$, $iS_gNW = +2m.59s.$
 Marseilles $iPN = +1m.43s.$, $iPSE = +2m.28s.$, $iSSN = +3m.6s.$, $iN = +4m.47s.$
 Uccle $iZ = +2m.34s.$, $iS^*E = +3m.35s.$
 Hamburg $iSZ = +3m.32s.$, $iEN = +4m.1s.$
 Lille $iP_gN = +2m.43s.$, $iSSN = +4m.26s.$, $iSSE = +4m.39s.$, $iE = +4m.57s.$
 Sofia $eNW = +2m.31s.$, $i = +4m.36s. = S_g + 1s.$
 Bagnères $i = +4m.12s.$, $+4m.48s.$, and $+5m.5s.$
 Copenhagen $eN = +3m.45s.$, $eE = +3m.58s.$
 Bucharest $PPN = +3m.0s.$ and $+3m.3s.$, $SSN = +5m.19s.$
 Kew $iPE = +2m.48s.$, $iP^*E = +2m.57s.$, $iP^*N = +3m.1s.$, $iP^* = +3m.13s.$, $iP_gE = +3m.38s.$, $iP = +4m.8s.$, $iSEZ = +4m.53s.$, $iS^*NZ = +5m.7s.$, $iS^*EN = +5m.29s.$, $iS_gEN = +5m.39s.$, $iEN = +5m.44s.$, $iE = +5m.57s.$
 Jersey $e = +2m.24s.$, $+2m.27s.?$ and $+3m.4s.$, $iP_g = +3m.19s.$, $i = +3m.36s.$, $+3m.43s.$ and $+4m.5s.$
 Tortosa $ePE = +2m.18s.$
 Bidston $iSS = +5m.26s.$
 Rathfarnham Castle $i = +3m.47s.$, $+4m.27s.$, $+4m.51s.$, $+4m.55s.$, and $+6m.57s.$
 Ksara $SS = +9m.7s.$
 Tiflis $eSSE = +10m.27s.$
 Tashkent $e = +16m.41s. = SSS - 4s.$
 Tucson $e = +44m.54s.$
 Long waves were also recorded at Edinburgh, Vladivostok, Ivigtut, and Scoresby Sund.

Oct. 18d. 16h. Shock for which no determination can be made:—

Chiufeng $ePZ = 30m.25s.$ and $32m.6s.$, $eSZ = 34m.0s.$, $S = 36m.0s.$, $iL = 38m.48s.$, $M = 40m.57s.$
 Tashkent $e = 32m.49s.$, $37m.12s.$, $39m.55s.$, $42m.27s.$, $45m.22s.$, $46m.12s.$, $47m.43s.$, and $48m.49s.$, $i = 49m.32s.$, $iS = 50m.36s.$, $M = 52m.18s.$
 Vladivostok $e = 33m.4s.$, $36m.33s.$, and $37m.24s.$, $L = 38m.6s.$, $M = 38m.30s.$
 Nanking $P = 35m.18s.$, $eSE = 43m.13s.$, $SS? = 44m.24s.$
 Semipalatinsk $eP = 35m.38s.$
 Sverdlovsk $iP = 36m.54s.$, $i = 36m.58s.$ and $38m.17s.$, $L = 49m.0s.$, $M = 53m.36s.$
 Andijan $eP = 37m.21s.$, $e = 50m.0s.$
 Helzyo $P? = 37m.22s.$
 Kelzyo $eP = 37m.55s.$, $eS = 39m.48s.$, $M = 40m.13s.$
 Zinsen $eP = 37m.58s.$, $eS = 39m.30s.$, $M = 40m.16s.$
 Moscow $e = 38m.11s.$, $39m.59s.$, and $45m.9s.$, $L = 53m.18s.$, $M = 61m.30s.$
 Tiflis $ePZ = 38m.57s.$, $eZ = 46m.27s.$, $51m.29s.$, $54m.26s.$, and $55m.21s.$, $LE = 58m.12s.$, $M = 63m.42s.$
 Ksara $e = 40m.12s.$, $44m.6s.$, and $52m.16s.$
 Taikyū $eP = 40m.49s.$, $iE = 41m.15s.$, $S = 42m.37s.$
 Tinemaha $ePN = 41m.8s.$
 Santa Barbara $iPZ = 41m.17s.$
 Pasadena $iPZ = 41m.22s.$
 Mount Wilson $iPZ = 41m.23s.$
 Husan $eP = 41m.30s.$, $eS = 43m.4s.$
 La Jolla $iP = 41m.31s.$
 Tucson $iP = 41m.49s.$, $eL = 72m.0s.$
 Hukuoka B $eP = 42m.30s.$, $eS = 44m.24s.$
 Hong Kong $P? = 43m.17s.$, $S? = 47m.32s.$, $SS? = 49m.32s.$, $M = 55m.4s.$
 Frunse $e = 43m.19s.$ and $48m.29s.$
 Calcutta $eN = 44m.26s.$, $iN = 52m.3s.$
 Agra $eE = 44m.49s.$
 Pulkovo $e = 45m.18s.$, $L = 55m.$, $M = 58m.42s.$
 Kodaikanal $eE = 48m.0s.$
 Tchikent $e = 48m.33s.$ and $50m.10s.$
 Phu-Lien $e = 50m.55s.$ and $54m.0s.$
 Baku $eS = 52m.47s.$, $eL = 57m.$, $M = 59m.42s.$
 Cheb $e = 55m.$, $M = 65m.$
 Long waves were also recorded at Hyderabad, Grozny, Bozeman, Scoresby Sund, also at several European stations, which may belong either here or to the local shock recorded at 16h. 57m.

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Oct. 18d. 21h. 49m. 40s. Epicentre 43°·8N. 11°·2E. (as on 1929 July 18d.). X.

A = +·7080, B = +·1402, C = +·6921; $\delta = -8$;
D = +·194, E = -·981; G = +·679, H = +·134, K = -·722.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Padova	1·7	17	e 0 40	P _g	—	—	—
Chur	3·2	338	e 0 46	0	e 1 16	- 6	—
Zagreb	4·0	58	0 54	- 3	—	—	1·5
Zurich	4·0	332	e 0 57	0	e 1 42	0	—
Ravensburg	4·2	345	—	—	e 1 30	-18	—
Neuchatel	4·4	318	e 1 10	P*	e 2 11	S*	—
Basle	4·5	328	e 1 6	+ 2	e 2 10	S*	—
Stuttgart	5·2	345	e 1 15	+ 1	e 1 45	S _g	—
Strasbourg	5·3	334	e 1 35	P _g	i 2 15	0	—
Vienna	5·7	37	—	—	e 2 20?	- 5	—
Göttingen	7·8	355	—	—	e 3 20?	+ 1	3·4

Additional readings:—

Zagreb i = +58s.
Zurich eP_g = +1m.3s.
Neuchatel iP_g = +2m.20s.
Stuttgart eS_g = +2m.1s.

Oct. 18d Readings also at 0h. (Erevan, near Tiflis, near Batavia, near Mizusawa, and Nagoya), 1h. (near Batavia and Malabar), 2h. (Tucson and near Santiago), 5h. (Santiago and near Nagoya), 6h. (Riverview), 7h. (Hastings), 9h. (Berkeley, Branner, Fresno, near Christchurch, New Plymouth, and Wellington), 11h. (Mount Wilson and Pasadena), 16h. (Medan, Simferopol, Theodosia, Yalta, Bucharest, Strasbourg, Stuttgart, Basle, near Chur, Zurich, and near Mizusawa), 19h. (near Nagoya and near Santiago), 20h. (Ksara), 22h. (near Chur), 23h. (Medan).

Oct. 19d. 7h. 5m. 54s. Epicentre 45°·0N. 12°·5E. N.3.

Very rough.

A = +·6903, B = +·1530, C = +·7071; $\delta = -9$;
D = +·216, E = -·976; G = +·690, H = +·153, K = -·707.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Padova	0·6	312	i 0 19	+10	0 29	+14	—	—
Florence	1·5	216	0 36	S	(0 36)	- 3	—	1·5
Laibach	1·8	53	i 0 30	P _g	i 0 49	+ 3	—	0·8
Zagreb	2·6	72	i 0 43	P*	i 1 10	+ 3	—	1·5
Chur	2·8	312	e 0 38	- 2	e 1 6	- 6	—	—
Graz	2·9	45	e 0 40	- 1	e 1 6	- 8	—	1·3
Ravensburg	3·4	326	e 0 46	- 3	i 1 24	- 3	—	—
Zurich	3·6	313	e 0 49	- 2	e 1 34	+ 2	—	—
Ebingen	4·0	323	e 0 53	- 4	i 1 41	- 1	—	—
Basle	4·2	308	e 0 57	- 3	e 1 43	- 5	—	—
Vienna	4·2	38	e 1 1	+ 1	e 1 53	+ 5	—	—
Neuchatel	4·3	299	e 1 2	+ 1	e 2 3	S*	—	—
Stuttgart	4·4	330	e 0 57	- 6	e 1 43	-10	—	1 2·3
Strasbourg	4·8	319	e 1 11	+ 3	i 2 9	+ 6	—	—
Cheb	5·1	357	e 1 22	P*	e 1 48	-22	—	2·9
Prague	5·2	12	e 1 58	P _g	e 2 12	- 1	—	4·6
Belgrade	5·6	89	e 2 57	S _g	—	—	—	—
Jena	5·9	355	i 1 36	P*	i 2 6	-25	1 2·3	2·7
Göttingen	6·5	347	i 1 26	- 6	i 3 3	S*	—	3·2
Paris	7·8	303	—	—	e 3 46	S*	—	—
Uccle	z.	7·9	e 2 17	P*	—	—	—	—
Hamburg		8·7	—	—	e 4 12	S*	—	—
Kew		10·7	—	—	e 5 6?	S*	—	—

For Notes see next page.

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NOTES TO OCT. 19d. 7h. 5m. 54s.

Additional readings:—

Zagreb $i = +48s.$, $iNE = +1m.1s.$ and $+1m.14s.$, $iNW = +1m.20s.$, $iNE = +1m.25s.$

Ravensburg $e = +1m.22s.$, $i = +1m.26s.$

Zurich $e = +50s.$, $eP_g = +56s.$

Ebingen $eP_gZ = +1m.0s.$, $e = +1m.29s.$, $i = +1m.44s.$

Basle $eP = +1m.8s.$, $e = +1m.57s.$

Neuchatel $eP_g = +1m.12s.$

Stuttgart $iP_g = +1m.7s.$, $eS = +1m.36s.$, $iS_g = +1m.53s.$, $i = +1m.56s.$

Belgrade $iNW = +3m.14s.$ and $+3m.56s.$, $iZ = +4m.23s.$

Jena $eNZ = +1m.12s.$, $iN = +2m.14s.$

Göttingen $iP_gN = +1m.50s.$, $eN = +2m.26s.$ and $+2m.38s.$

Long waves were also recorded at Ivigtut, Sverdlovsk, Scoresby Sund, Copenhagen, and De Bilt.

Oct. 19d. 12h. 4m. 25s. Epicentre $2^{\circ}0S.$ $126^{\circ}0E.$

N.1.

$A = -.5874$, $B = +.8085$, $C = -.0349$; $\delta = -7$;

$D = +.809$, $E = +.588$; $G = +.021$, $H = -.028$, $K = -.999$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Amboina	2.8	128	i 0 4	-36	i 0 41	-31	—	—
Palau	12.6	42	2 56	0	5 35	+18	—	—
Manila	17.3	344	i 3 58k	0	7 16	+7	—	—
Malabar	19.0	255	i 4 24	+5	i 8 10	SSSS	—	—
Batavia	19.6	258	i 4 28	+3	i 8 19	SSS	—	—
Soengei Langka	21.0	261	i 4 45	+5	i 8 39	+13	—	—
Kosyun	24.6	348	5 15	-1	9 36	+2	—	—
Taito	25.3	350	5 27	+4	—	—	—	—
Tainan	25.6	348	5 32	+7	—	—	—	—
Arisan	26.0	349	5 31	+2	9 58	0	—	—
Karenko	26.3	350	5 13	-19	—	—	—	—
Isigakizima	26.4	356	5 33	0	10 6	+1	—	—
Taityu	26.7	349	5 43	+8	—	—	—	—
Hong Kong	26.9	335	5 37a	0	10 24	+10	—	16.6
Giran	27.1	351	5 48	+9	10 29	+12	—	—
Taihoku	27.4	351	e 5 46	+4	e 10 16	-6	—	—
Medan	27.9	282	5 51	+5	i 10 36	+6	—	—
Phu-Lien	29.6	321	e 6 4	+3	e 11 5	+7	—	—
Perth	31.5	198	6 15	-3	11 10	-18	16.1	—
Titizima	33.0	27	6 33	+1	—	—	—	—
Zi-ka-wei	z. 33.5	353	e 6 33	-3	12 9	+11	17.0	20.2
Miyazaki	34.3	8	6 44	+1	12 7	-4	—	—
Nanking	34.7	348	i 6 48k	+2	i 12 16	-1	17.9	—
Tomie	34.7	4	6 55	+9	—	—	—	—
Nagasaki	34.9	5	6 49	+1	11 48	-32	—	—
Adelaide	35.0	163	i 6 43	-6	i 12 13	-8	16.9	21.7
Hukuoka B	35.8	5	e 6 59	+3	e 12 23	-10	—	—
Koti	36.3	10	6 57	-3	12 36	-5	—	—
Matuyama	36.4	9	7 0	-1	12 39	-3	—	—
Siomisaki	36.6	13	6 48	-15	—	—	—	—
Husan	37.2	3	(e 7 9)	+1	e 7 9	P	—	—
Wakayama	37.2	12	7 6	-2	—	—	—	—
Sumoto	37.3	12	7 7	-2	e 12 50	-6	—	—
Kobe	37.7	12	e 7 11	-1	e 12 55	-7	—	22.0
Osaka	37.7	12	7 8	-4	13 0	-2	—	—
Osaka B	37.7	12	7 1	-11	—	—	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Taikyu	37.9	3	7 15	+ 1	13 5	0	19.4	—
Kameyama	38.1	14	7 15	- 1	13 2	- 6	—	—
Kyoto	38.1	13	7 15	- 1	—	—	—	—
Toyooka	38.4	12	7 18	0	13 8	- 4	—	—
Hikone	38.5	13	7 19	0	13 11	- 3	—	—
Nagoya	38.6	14	7 19	- 1	13 11	- 4	—	—
Gihu	38.7	14	7 21	0	13 9	- 8	—	—
Hamamatu	38.7	16	7 17	- 4	13 6	-11	—	—
Misima	39.0	17	7 22	- 2	—	—	—	—
Numadu	39.0	17	7 39	+15	—	—	—	—
Hunatu	39.4	17	7 25	- 2	—	—	—	—
Kohu	39.4	17	7 26	- 1	13 23	- 4	—	—
Zinsen	N. 39.5	0	i 7 31	+ 3	e 12 59	-30	—	—
Keizyo	39.6	1	i 7 28	- 1	e 13 28	- 2	—	—
Riverview	39.6	147	i 7 30k	+ 1	i 13 29	- 1	e 21.0	22.7
Sydney	39.6	147	e 4 53	?	13 35	+ 5	25.0	26.4
Kanazawa	39.8	13	8 21	+51	14 23	+50	—	—
Melbourne	39.8	157	7 28	- 2	13 35	+ 2	21.6	22.8
Tokyo	39.8	18	7 30	0	13 28	- 5	—	—
Husiki	40.1	13	7 8	-25	—	—	—	—
Oiwake	40.1	16	7 31	- 2	13 32	- 6	—	—
Toyama	40.1	13	7 30	- 3	13 34	- 4	—	—
Kumagaya	40.2	17	7 30	- 4	—	—	—	—
Maebasi	40.3	16	8 33	+58	—	—	—	—
Nagano	40.3	15	7 34	- 1	13 38	- 3	—	—
Kakioka	40.5	16	7 30	- 6	13 33	-11	—	—
Takada	40.7	15	8 8	+30	—	—	—	—
Wazima	40.7	13	7 36	- 2	13 43	- 4	—	—
Aidu	41.7	16	8 30	+44	15 20	+78	—	—
Niigata	41.7	15	8 0	+14	—	—	—	—
Hokusima	42.0	16	7 47	- 2	14 1	- 5	—	—
Yamagata	42.4	16	7 53	+ 1	—	—	—	—
Sendai	42.6	16	7 53	0	14 11	- 4	—	—
Isinomaki	42.8	16	7 52	- 3	—	—	—	—
Mizusawa	43.4	17	i 8 1	+ 1	i 14 26	- 1	—	—
Akita	43.7	16	7 52	-10	—	—	—	—
Morioka	44.0	17	8 4	- 1	14 34	- 2	—	—
Calcutta	N. 44.2	305	8 11	+ 5	—	—	—	—
Hatinohe	44.8	17	8 9	- 2	—	—	—	—
Aomori	44.9	15	8 10	- 2	14 46	- 3	—	—
Vladivostok	45.4	7	i 8 13	- 3	i 14 52	- 4	23.3	34.5
Hakodate	45.8	15	8 23	+ 4	—	—	—	—
Colombo	46.9	281	8 29	+ 1	15 26	+ 9	27.9	31.7
Sapporo	47.1	15	8 30	+ 1	—	—	—	—
Obihiro	47.5	17	8 28	- 4	14 38	-48	—	—
Haboro	48.5	15	8 11	-29	—	—	—	—
Nemuro	48.6	19	8 55	+14	15 53	+12	—	—
Kodaikanal	E. 49.8	286	i 8 50	0	i 16 0	+ 2	i 24.0	32.5
Hyderabad	50.7	294	8 53	- 4	16 11	0	23.6	34.6
Agra	E. 54.6	306	9 22	- 4	i 17 3	- 1	26.4	—
Dehra Dun	55.9	309	9 55	+20	17 45	+24	25.7	35.6
Bombay	56.3	294	9 35	- 3	i 17 20	- 7	25.6	—
Arapuni	57.9	135	—	—	i 22 5	SS	30.1	33.1
Wellington	58.1	139	9 51	0	17 57	+ 6	26.6	32.6
Christchurch	58.6	141	e 9 50a	- 5	i 18 3	+ 6	28.2	33.2
Almata	63.1	322	e 10 26	0	—	—	—	—
Andijan	63.5	317	e 10 36	+ 7	19 19	+18	35.3	—
Frunse	64.3	321	e 10 21	-13	19 2	- 9	—	—
Semipalatinsk	65.3	331	e 10 38	- 3	—	—	—	—
Tashkent	67.1	317	i 10 49	- 3	i 19 47	+ 1	29.2	44.7

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M m
Tchimkent	67.3	318	e 10 53	- 1	19 49	+ 1	—	—
Samarkand	68.1	314	e 10 56	- 3	20 1	+ 3	—	—
Honolulu	77.9	68	e 20 7	?	e 21 50	- 3	34.7	—
Sverdlovsk	78.5	330	i 12 10	+10	i 22 1	+ 2	35.6	48.8
Baku	80.8	312	i 12 18	+ 6	i 22 22	- 2	37.6	50.2
Grozny	83.0	314	e 12 30	+ 7	22 54	+ 7	—	—
Erevan	84.8	310	12 39	+ 7	e 23 9	+ 3	—	—
Tiflis	84.8	312	e 12 29	- 3	i 22 58	[0]	e 38.1	59.6
Piatigorsk	86.3	314	12 39	- 1	e 23 8	[0]	—	—
Sotchi	88.7	314	—	—	e 23 35	- 9	—	—
College	90.2	25	e 16 41	PP	e 23 17	[-17]	—	—
Moscow	90.8	326	e 13 5	+ 4	23 33	[- 4]	43.6	58.2
Ksara	91.2	304	i 13 7 _a	+ 4	e 24 13	+ 6	43.6	49.6
Theodosia	91.9	316	—	—	e 23 38	[- 6]	—	—
Yalta	92.7	315	e 16 48	PP	e 24 7	-14	—	—
Simferopol	92.8	315	—	—	e 24 12	-10	—	—
Sebastopol	93.2	315	e 18 17	PPP	e 24 46	+20	—	—
Helwan	95.0	300	13 23	+ 3	23 55	[- 6]	—	60.9
Pulkovo	95.0	330	e 13 3	-17	23 50	[-11]	52.6	56.9
Sitka	96.4	33	e 16 40	PP	e 24 1	[- 7]	—	—
Bucharest	98.5	315	17 35	PP	24 16	[- 2]	—	—
Upsala	100.9	331	e 17 52	PP	i 24 22	[- 8]	e 46.6	60.4
Belgrade	102.4	315	e 18 15	PP	i 24 35	[- 2]	e 42.6	—
Cape Town	103.3	236	e 17 45	PP	i 24 55	[+13]	e 49.2	58.4
Copenhagen	104.7	328	18 30	PP	24 46	[- 2]	49.6	—
Prague	105.2	322	e 18 5?	[+ 3]	e 24 47	[- 4]	e 48.6	62.1
Vienna	105.2	320	e 14 6	- 2	24 42	[- 9]	e 59.6	—
Zagreb	105.3	317	e 18 23	[+21]	e 24 49	[- 2]	e 52.6	—
Cheb	106.5	322	e 17 35?	[-31]	i 24 53	[- 4]	e 58.6	62.6
Hamburg	106.8	327	e 18 35	PP	e 24 41	[-17]	e 52.6	63.6
Ukiah	107.3	50	—	—	e 33 59	SS	—	—
Göttingen	107.5	324	i 18 51 _k	PP	—	—	e 57.6	64.6
Padova	108.2	318	e 18 35	PP	—	—	—	—
Berkeley	E. 108.3	51	—	—	e 25 1	[- 4]	—	—
Scoresby Sund	108.4	349	i 18 59	PP	24 57	[- 9]	52.6	—
Stuttgart	108.9	322	e 14 23	- 3	e 25 3	[- 5]	e 53.6	—
Strasbourg	109.8	322	e 19 12	PP	e 28 27	PS	e 45.6	—
De Bilt	110.0	326	i 19 12	PP	i 25 12	[- 1]	e 49.6	67.0
Uccle	111.0	325	e 19 18	PP	—	—	e 51.6	—
Pasadena	112.4	54	e 14 49	+ 7	e 27 5	{+41}	e 39.9	—
Mount Wilson	z. 112.6	54	e 14 47	+ 4	—	—	—	—
Paris	112.9	324	i 19 27 _k	PP	e 28 56	?	57.6	66.6
Kew	113.3	327	i 19 35 _a	PP	i 29 10	SP?	e 57.6	73.2
Bozeman	113.9	40	e 15 53	+63	e 26 41	{+ 7}	—	—
Algiers	117.2	311	e 19 53	PP	e 33 5	?	55.6	—
Tucson	118.7	54	e 18 47	[+ 5]	e 27 19	{+11}	e 50.8	—
Almeria	121.2	313	e 20 3	PP	—	—	—	—
Granada	121.9	314	i 20 19	PP	i 31 37	?	—	—
San Fernando	124.1	314	e 20 42	PP	e 37 42	SS	64.6	—
Chicago	130.1	33	e 18 35	[-32]	—	—	—	—
Florissant	130.5	38	i 22 11	PKS	—	—	e 66.2	—
Little Rock	131.6	44	e 22 36	PKS	—	—	—	—
Ottawa	132.6	21	e 22 41	PKS	e 28 35?	{- 3}	e 48.6	—
Toronto	132.6	25	i 22 42	PKS	i 28 30	{- 8}	56.6	—
Philadelphia	137.5	24	i 22 55	PKS	e 40 3	SS	e 60.8	—
Columbia	139.2	35	e 23 5	PKS	e 40 35	SS	—	—
Dakar	141.7	292	e 15 8	?	—	—	—	—
Rio de Janeiro	153.0	204	e 19 53	[+ 7]	—	—	e 43.1	—
Huancayo	154.8	125	e 19 52	[+ 4]	38 26	?	65.1	—
La Paz	156.8	144	20 5	[+15]	—	—	76.6	97.9
San Juan	159.8	35	e 20 40	{- 3}	—	—	e 74.6	—

For Notes see next page.

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NOTES TO OCT. 19d. 12h. 4m. 25s.

Additional readings :—

Hong Kong PP = +6m.24s., SS = +12m.6s.
 Perth PP = +7m.14s., SS = +12m.50s., ? = +13m.5s. = SS + 0s., +13m.35s.,
 and +14m.35s.
 Zi-ka-wei iZ = +6m.45s., PPZ = +7m.39s., SSZ = +14m.17s.
 Adelaide i = +6m.52s. and +7m.34s., iPP = +7m.59s., L = +9m.14s. and
 +13m.5s., iSS = +14m.7s., i = +14m.46s. = SSS + 3s., and +15m.39s.
 Sumoto e = +8m.35s. = PP + 6s.
 Kobe eSE = +12m.58s.
 Taikyū PP = +8m.49s.
 Toyooka PE = +7m.21s.
 Keizyo ePPN = +8m.58s.
 Riverview iEN = +8m.57s. = PP + 2s.
 Sydney PP = +9m.3s., SS = +18m.20s., SSS = +21m.15s.
 Melbourne PPP = +9m.2s.
 Mizusawa isE = +14m.29s.
 Calcutta iN = +11m.50s.
 Kodaikanal iPPE = +10m.41s., iSSE = +19m.25s., iSSSE = +20m.37s.
 Agra PSE = +17m.37s., SSE = +20m.49s., SSSE = +22m.23s.
 Bombay PSEN = +17m.50s., S_cSE = +19m.24s.
 Wellington SS = +22m.23s., SSS = +24m.4s.
 Honolulu eS = +23m.11s.
 Tiflis iP = +12m.35s., eZ = +23m.40s.
 College e = +22m.41s., eSS = +30m.5s.
 Moscow PP = +16m.41s., PPP = +18m.58s., PPS = +25m.26s., SS = +30m.11s.
 Ksara PP = +16m.45s., ePS = +25m.13s., eSS = +30m.33s.
 Theodosia i = +24m.13s.
 Helwan e = +17m.10s.
 Pulkovo PP = +17m.14s., S_cS = +24m.38s., PS = +25m.35s., L_q = +47.6m.
 Sitka S = +24m.49s.
 Bucharest eEN = +20m.41s., PSEN = +24m.59s.
 Belgrade eNW = +32m.57s.
 Cape Town iPS?N = +25m.52s., iPPSN = +27m.15s., iPPSE = +27m.18s.,
 eSSS?E = +36m.27s.
 Copenhagen PS = +27m.38s., PPS = +28m.43s., SSN = +33m.23s.
 Prague e = +33m.35s. and +40m.23s. = SSSS + 9s.
 Vienna PP = +18m.32s., PPS = +29m.3s.
 Zagreb eNE = +18m.39s.
 Hamburg eE = +34m.11s.
 Berkeley eN = +25m.11s., eN = +26m.26s., eE = +28m.11s.
 Scoresby Sund PPP = +21m.9s., PS = +28m.17s., SS = +34m.23s.
 Dakar iSKSP = +30m.35s., ePPS = +31m.30s., eSS = +37m.35s.
 Stuttgart ePP = +18m.57s., eS = +26m.49s., ePS = +28m.15s., ePPS =
 +29m.29s., eSS = +33m.59s.
 Strasbourg e = +29m.35s.?
 De Bilt iZ = +28m.36s. = PS + 8s.
 Pasadena iPPZ? = +18m.35s., iPKSZ? = +19m.6s.
 Mount Wilson eZ = +18m.31s., iZ = +19m.7s. = PP - 9s., eZ = +29m.38s.
 Bozeman ePS = +28m.53s.
 Tucson PP = +20m.2s., ePS = +29m.40s., PS = +29m.50s., eSS = +36m.11s.,
 SSS = +39m.55s.
 Chicago eSKP = +22m.35s.
 Florissant iN = +22m.37s., eE = +22m.40s. = PKS + 4s., eN = +23m.6s., iN =
 +23m.11s.
 Little Rock iE = +22m.38s., iEN = +22m.49s., eEN = +23m.22s.
 Ottawa eN = +34m.35s. ? eE = +39m.35s.
 Toronto e = +31m.45s. = PS - 9s.
 Philadelphia ePPP = +25m.16s., ePPS = +34m.7s., e = +54m.43s.
 Columbia ePPS = +34m.14s., e = +44m.5s.
 Rio de Janeiro eE = +20m.3s.
 Huancayo PKP₁ = +20m.16s., e = +25m.25s., S = +40m.24s., SSS = +51m.33s.,
 e = +53m.36s.
 La Paz PKP₁ = +20m.49s., PPN = +25m.13s., SS = +44m.35s.
 San Juan ePP = +24m.24s., ePPS = +37m.7s.
 Long waves were also recorded at Oak Ridge, Edinburgh, Stonyhurst, Bergen,
 Florence, Bidston, Durham, Madison, Ivigtut, Jena, and Rathfarnham
 Castle.

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Oct. 19d. 19h. 56m. 1s. Epicentre 36°·5N. 135°·8E. N.1.

(as given by Japanese stations).

$$A = -0.5763, B = +0.5604, C = +0.5948; \quad \delta = -4;$$

$$D = +0.697, E = +0.717; \quad G = -0.426, H = +0.415, K = -0.804.$$

The stations give focal depth 350k.m. and a correction for depth 0.060 has been applied.

	Corr. tor Focus	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	L. m.	M. m.
				m.	s.		m.	s.			
Hukui	+2.3	0.6	140	0	33	-8	1	11	-3	—	—
Kanazawa	+2.3	0.6	87	0	48	+7	1	25	S*	—	—
Husiki	+2.2	1.0	74	0	47	+1	1	26	+4	—	—
Miyadu	+2.1	1.1	207	0	48k	+2	1	28	+6	—	—
Toyama	+2.1	1.1	81	0	48	+2	1	28	+6	—	—
Ibukisan	+2.1	1.2	157	0	48	+1	1	28	+3	—	—
Takayama	+2.1	1.2	107	0	49	+2	—	—	—	—	—
Wazima	+2.1	1.2	45	0	47k	0	1	26	+1	—	—
Hikone	+2.1	1.3	164	0	49k	0	1	30	+3	—	—
Toyooka	+2.1	1.3	219	0	46k	-3	1	26	-1	—	1.5
Gihu	+2.0	1.4	145	0	50k	+1	1	31	+4	—	—
Kyoto	+2.0	1.5	182	0	51a	+1	1	31	+1	—	—
Nagoya	+1.9	1.7	145	0	52	+1	1	34	+2	—	1.6
Kameyama	+1.8	1.8	162	0	53k	+2	1	36	+4	—	—
Iida	+1.8	1.9	121	0	55k	+2	1	40	+5	—	—
Kobe	+1.8	1.9	195	e 0	51	-2	i 1	35	0	—	1.6
Nagano	+1.8	1.9	85	0	54k	+1	1	39	+4	—	—
Osaka	+1.8	1.9	187	0	54	+1	1	37	+2	—	—
Osaka B	+1.8	1.9	187	0	55a	+2	1	29	-6	—	—
Tu	+1.8	1.9	162	0	52	-1	1	37	+2	—	—
Takada	+1.8	2.0	73	0	54k	0	1	31	-6	—	—
Yagi	+1.8	2.0	180	0	54	0	1	36	-1	—	—
Oiwake	+1.7	2.2	94	0	55k	-1	1	42	+2	—	—
Sakai	+1.6	2.3	245	0	54k	-2	1	36	-4	—	—
Sumoto	+1.6	2.3	199	0	54a	-2	1	39	-1	—	1.7
Wakayama	+1.6	2.3	193	0	56a	0	1	40	0	—	—
Hamamatu	+1.6	2.4	139	1	0	+3	1	47	+5	—	—
Kohu	+1.6	2.4	111	0	58	+1	—	—	—	—	—
Hunatu	+1.5	2.6	113	1	0	+2	1	49	+4	—	—
Omaezaki	+1.5	2.7	134	1	2k	+2	1	53	+5	—	—
Tokusima	+1.5	2.7	202	0	58k	-2	1	46	-2	—	—
Kumagaya	+1.4	2.9	97	1	1a	0	1	49	-1	—	—
Misima	+1.4	2.9	118	1	2	+1	1	57	+7	—	—
Ito	+1.3	3.1	120	1	4	+1	2	0	+7	—	—
Siomisaki	+1.3	3.1	181	1	3a	0	1	55	+2	—	—
Utunomiya	+1.3	3.2	89	1	5	+1	1	59	+4	—	—
Tokyo	+1.2	3.3	104	1	6	+2	2	0	+5	—	—
Yokohama	+1.2	3.3	109	1	8	+4	1	56	+1	—	—
Kakioka	+1.1	3.5	93	1	3k	-3	1	56	-2	—	—
Koti	+1.1	3.5	213	1	5a	-1	1	57	-1	—	—
Tukubasan	+1.1	3.5	93	1	5k	-1	1	58	0	—	—
Aidu	+1.1	3.6	71	1	21a	+14	2	56	+56	—	—
Maroto	+1.1	3.6	203	1	6	-1	2	1	+1	—	—
Matuyama	+1.0	3.7	224	1	6a	-1	1	58	-2	—	—
Mera	+1.0	3.7	115	1	12	+5	2	6	+6	—	—
Mito	+1.0	3.8	94	1	9k	-1	2	4	+1	—	—
Hukusima	+1.0	3.9	71	1	9k	-1	—	—	—	—	—
Yamagata	+0.9	4.0	63	1	10	0	—	—	—	—	—
Onahama	+0.9	4.1	81	1	19k	P*	2	17	+9	—	—
Tyosi	+0.8	4.2	100	1	13	+2	2	12	+4	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Sendai	+0.8	4.4	63	1 14k	0	—	—	—	—
Isinomaki	+0.6	4.8	65	1 7	-7	—	—	—	—
Mizusawa	+0.5	4.9	57	i 1 20	+3	2 23	+5	—	—
Morioka	+0.5	5.2	51	1 21k	0	2 23	-2	—	—
Hukuoka	+0.4	5.3	238	1 19	-2	2 24	-1	—	2.5
Hukuoka B	+0.4	5.3	238	i 1 21	0	i 2 22	-3	—	2.5
Kumamoto	+0.4	5.6	230	1 26	+1	2 36	+3	—	—
Aomori	+0.3	5.8	40	1 26k	-1	2 33	-3	—	—
Miyako	+0.3	5.8	55	1 23	-4	2 31	-5	—	—
Miyazaki	+0.3	5.8	220	1 26a	-1	2 43	+7	—	—
Taikyū	e. +0.3	5.8	266	1 24	-3	2 34	-2	—	—
Hatinohe	+0.3	6.0	46	1 29	-1	2 37	-4	—	—
Nagasaki	+0.2	6.2	234	1 32k	+1	2 47	+4	—	—
Hakodate	+0.2	6.4	34	1 49	P*	3 5	S*	—	—
Tomie	0.0	7.1	237	1 41a	0	3 4	+3	—	—
Keizyo	0.0	7.1	281	i 1 38k	-3	i 2 55	-6	—	3.0
Vladivostok	0.0	7.2	337	i 1 35	-7	i 3 0	-4	3.8	—
Zinsen	-0.1	7.4	281	i 1 40k	-4	i 3 3	-3	—	—
Sapporo	-0.2	7.8	31	1 49k	+1	3 14	0	—	—
Urakawa	-0.2	7.8	41	1 29	-19	2 54	-20	—	—
Obihiro	-0.3	8.5	39	1 52	-4	3 21	-8	—	—
Asahigawa	-0.4	8.8	32	2 6	+7	3 40	+6	—	—
Nemuro	-0.7	10.1	44	2 9	-4	4 1	+2	—	—
Nanking	-1.5	14.7	258	i 3 2	-3	—	—	—	—
Frunse	-5.2	46.5	298	e 7 43	0	e 14 3	+7	—	—
Tashkent	-5.5	50.7	297	i 8 17	+3	i 15 2	+8	—	—
Sverdlovsk	-5.7	52.3	318	i 8 43	+18	i 15 37	+24	—	—
Samarkand	-5.7	52.9	296	e 8 34	+4	e 15 29	+8	—	—
Mount Wilson	z. -7.3	81.4	54	i 11 38	+3	—	—	—	—
Pasadena	z. -7.3	81.4	54	i 11 38	+3	—	—	—	—

Pasadena gives also $iZ = +13m.0s.$

Oct. 19d. Readings also at 4h. (Fresno, near Wellington, and near Andijan), 5h. (near Balboa Heights), 6h. (Tifis, Ksara, Copenhagen, Hamburg, De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Kew, Stonyhurst, Jersey, Florence, Granada, Scoresby Sund, Ivigtut, Mount Wilson, Pasadena, and Riverside), 7h. (Medan, Tashkent, Copenhagen, Paris (2), Stuttgart, Tifis, Granada, Scoresby Sund, Ivigtut, Mount Wilson, Pasadena, Riverside, and Tucson (2)), 8h. (Tashkent, De Bilt, Jersey, and near Belgrade), 9h. (Sverdlovsk and Tifis), 11h. (near Santiago), 13h. (Batavia, Frunse, and Andijan), 14h. (Branner and La Paz), 17h. (Almeria, Andijan, Samarkand, and Frunse), 19h. (near Medan and near Nagoya), 20h. (Sverdlovsk, Tifis, and near Tananarive).

Oct. 20d. 12h. 47m. 26s. Epicentre $13^{\circ}5N. 52^{\circ}0E.$ (as on 1931 June 23d.). X.

$$A = +.5987, B = +.7662, C = +.2334; \quad \delta = -2;$$

$$D = +.788, E = -.616; \quad G = +.144, H = +.184, K = -.972.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	25.1	327	i 5 18	-3	e 9 55	+12	—	—
Helwan	25.2	314	e 5 19	-3	9 54	+10	—	16.4
Baku	27.0	357	e 5 40	+2	e 10 22	+7	15.6	20.4
Tifis	28.9	348	e 6 2	+7	e 10 41	-6	16.6	19.3
Tashkent	31.6	26	—	—	e 11 19	-10	e 17.3	22.8
Sverdlovsk	43.9	6	—	—	e 14 44	+10	22.1	—

Additional readings:—
 Ksara $S_eS = +16m.14s.$
 Tifis $eN = +11m.5s.$
 Tashkent $e = +14m.40s.$

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Oct. 20d. 14h. 23m. 46s. Epicentre 35°·0N. 138°·2E. R.1.
(as given by Japanese stations).

A = -·6107, B = +·5460, C = +·5736; $\delta = +9$;
D = +·667, E = +·745; G = -·428, H = +·382, K = -·819.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Omaesaki	0·4	178	0 4k	- 2	0 10	0	—
Hamamatu	0·5	234	0 5k	- 2	0 13	0	—
Numadu	0·5	79	0 3k	- 4	0 11	- 2	—
Iida	0·6	330	0 8k	- 1	0 16	+ 1	—
Misima	0·6	79	0 6k	- 3	0 15	0	—
Hunatu	0·7	43	0 9k	- 1	0 20	+ 2	—
Ito	0·7	93	0 9a	- 1	0 19	+ 1	—
Kohu	0·7	25	0 9k	- 1	0 28	+10	—
Nagoya	1·0	279	i 0 15a	+ 1	i 0 29	+ 3	0·6
Gihu	1·2	289	0 16	- 1	0 34	S*	—
Kamakura	1·2	74	1 13	+56	c 1 28	+57	—
Matumoto	1·2	351	0 15k	- 2	0 33	+ 2	—
Yokohama	1·2	70	0 18k	+ 1	0 37	+ 6	—
Mera	1·3	94	0 21	P _g	0 36	+ 3	—
Mitaka	1·3	59	0 19	+ 1	0 37	+ 4	—
Oiwake	1·3	12	0 20k	P _g	0 40	+ 7	—
Kameyama	1·4	264	0 21k	P*	0 41	S*	—
Takayama	1·4	326	0 20	0	0 40	S*	—
Tokyo	1·4	61	0 21a	P*	0 41	S*	—
Tokyo I.U.	1·4	61	0 22	P _g	0 42	+ 6	—
Ibukisan	1·5	284	0 22	+ 1	0 44	S*	—
Kumagaya	1·5	40	0 23k	P*	0 43	S*	—
Maebasi	1·5	27	0 24k	P _g	0 44	S*	—
Tu	1·5	259	0 21	0	0 39	0	—
Hikone	1·6	279	0 25k	P _g	0 46	S*	—
Nagano	1·6	0	0 25k	P _g	0 48	S _g	—
Katuura	1·7	85	0 28	P _g	0 54	+10	—
Kiyosumi	1·7	85	0 22	- 2	0 45	+ 1	—
Toyama	1·9	334	0 28	0	0 57	S*	—
Tukubasan	1·9	52	0 29k	P*	0 55	S*	—
Husiki	2·0	332	0 30	+ 1	1 0	S*	—
Kakioka	2·0	53	0 30	+ 1	0 57	S*	—
Kanazawa	2·0	321	0 37	+ 8	1 5	+14	—
Kyoto	2·0	270	0 28	- 1	0 58	S*	—
Utunomiya	2·0	41	0 30	+ 1	0 57	S*	—
Yagi	2·0	256	0 31	P*	0 55	S*	—
Takada	2·1	1	0 40	+10	1 6	S*	—
Osaka	2·2	261	0 31	0	1 5	S*	—
Osaka B	2·2	261	0 33	P*	1 2	S*	—
Mito	2·3	53	0 36	P*	1 6	S*	—
Tyosi	2·3	71	0 37k	P*	0 58	- 1	—
Kobe	2·5	263	e 0 35	- 1	i 1 15	S*	1·3
Miyadu	2·5	282	0 33	- 3	1 14	S*	—
Siomisaki	2·6	232	0 36	- 1	1 12	+ 5	—
Wakayama	2·6	253	0 36a	- 1	1 7	0	—
Wazima	2·6	336	0 43	P*	1 17	S*	—
Onahama	2·8	48	0 39a	- 1	1 17	+ 5	—
Sumoto	2·8	257	0 44	P*	1 22	S*	1·6
Toyooka	2·8	281	0 40k	0	1 22	S*	1·4
Niigata	3·0	13	1 1	+18	1 49	+32	—
Tokusima	3·1	253	0 56	P _g	1 30	S*	—
Hokusima	3·3	34	0 53	P*	—	—	—
Okayama	3·5	263	0 52	+ 2	1 46	S _g	—
Tadotu	3·7	258	0 52	- 1	1 29	- 6	—
Yamagata	3·7	28	0 39	-14	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Muroto		3.8	241	1 3	P*	1 43	+ 6	—
Sendai		3.9	33	1 3	P*	1 48	+ 8	—
Koti		4.1	250	1 5	P*	1 54	+ 9	—
Sakai		4.1	280	1 12	P _g	2 8	S _g	—
Matuyama		4.7	255	1 13	P*	2 24	S _g	—
Mizusawa	E.	4.7	29	1 14	P*	2 17	S*	—
Hirosima		4.8	262	1 6	- 2	2 4	+ 1	—
Ooita		5.7	254	1 34	P*	—	—	—
Hukuoka B		6.6	258	c 1 49	P*	3 30	S _g	—
Kumamoto		6.6	253	1 46	P*	—	—	—
Nagasaki		7.3	253	2 20	P _g	—	—	—
Taikyu		7.8	279	c 4 7	S _g	—	—	—

Additional reading :—
Toyooka i = +47s.

Oct. 20d. 22h. 10m. 18s. Epicentre 38°·3N. 72°·8E. (as on 1935 July 22d.). R.3.

A = +·2321, B = +·7497, C = +·6198; δ = +7;
D = +·955, E = -·296; G = +·183, H = +·592, K = -·785.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Andijan		2.5	352	0 36	0	i 1 8	+ 4	—	1.2
Tashkent		4.0	320	i 0 58	+ 1	i 1 49	+ 7	i 1.9	2.8
Tchimkent		4.7	326	e 1 8	+ 1	e 2 2	+ 2	—	—
Samarkand		4.7	289	e 1 12	+ 5	e 1 58	- 2	—	3.3
Frunse		4.8	17	1 0	- 8	1 45	-18	—	2.2
Almata		5.9	31	e 1 13	-11	e 2 13	-18	—	—
Agra	E.	12.0	157	—	—	i 4 34	-29	—	—
Semipalatinsk		13.2	21	e 2 50	-15	e 5 8	-24	—	—
Baku		17.8	284	—	—	e 7 32	SS	—	—
Bombay		19.4	180	e 4 12	-11	i 7 47	- 7	—	—
Sverdlovsk		20.2	340	i 4 33	+ 1	i 8 12	+ 2	12.2	13.3
Calcutta	N.	20.6	125	i 6 17	?	e 7 49	-29	—	—
Grozny		21.0	293	4 43	+ 3	—	—	—	—
Tiflis		21.6	289	e 4 46	0	i 8 44	+ 6	e 12.0	—
Erevan		21.9	285	e 4 58	+ 8	i 8 36	- 8	—	—
Piatigorsk		23.0	295	e 5 40	+39	e 9 7	+ 2	—	—
Kodaikanal	E.	28.4	171	e 7 42?	?	—	—	—	—
Moscow		29.2	318	e 7 10	+72	e 11 24	+33	—	16.3
Simferopol		29.4	296	e 6 38	+38	—	—	—	—
Ksara		30.0	273	e 6 34	+29	e 11 54	+50	—	—
Pulkovo		34.2	323	i 7 16	+34	e 11 53	-16	18.7	22.4
Copenhagen		43.1	315	—	—	14 10	-12	22.7	—

Additional readings :—

Andijan P_g = +42s., iPP = +53s.

Samarkand i = +1m.32s. and +1m.49s., eS_g = +2m.9s.

Frunse iPP = +1m.15s., i = +1m.27s. and +1m.41s., S_g = +1m.50s.

Bombay iEN = +4m.52s.

Sverdlovsk L_q = +11.2m.

Grozny i = +5m.32s.

Tiflis eE = +5m.12s. = PPP + 5s.

Moscow e = +11m.40s., +12m.9s., +13m.25s., +14m.21s., and +15m.44s.

Simferopol e = +7m.22s.

Pulkovo e = +12m.44s.

Oct. 20d. Readings also at 1h. (near Graz), 3h. (Tiflis and near Santiago), 10h. (near Batavia and Malabar and near Sumoto), 11h. (Malabar), 13h. (Santiago), 18h. and 19h. (near Nagoya), 20h. (Balboa Heights, Tucson, and near Algiers), 21h. (near Florissant and Little Rock), 22h. (Jena and Tucson).

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Oct. 21d. Readings at 0h. (Tucson), 1h. (Baku, Tashkent, Tiflis, Helwan, Bombay, and Ksara), 2h. (Ksara, Baku, Tashkent, Kodaikanal, Tiflis, Sverdlovsk (2), Copenhagen, Mount Wilson, and Pasadena), 3h. (near Medan (2)), 5h. (Calcutta, Colombo, Hong Kong, Phu-Lien, Vladivostok, Nanking, Tashkent, Ksara, Kodaikanal, Bombay, and near Medan), 6h. (Copenhagen and Tiflis), 8h. (Semipalatinsk and near Balboa Heights), 10h. (Mizusawa), 11h. (Huancayo), 12h. (Mizusawa), 13h. (Christchurch, La Paz, Huancayo, La Jolla, Mount Wilson, Pasadena, Tinemaha, Ksara, Moscow, Tucson, Sverdlovsk, and Tiflis (2)), 14h. (Copenhagen, Tashkent, Baku, Paris, Kew, Pulkovo, Strasbourg, Stuttgart, Scoresby Sund, San Juan, Ukiah, Sydney, and Rio de Janeiro), 15h. (Berkeley, Branner, Fresno, Lick, Tucson, and San Francisco), 20h. (Sverdlovsk, Tiflis, Tucson, and La Paz), 21h. (Berkeley, Branner, Lick, San Francisco, Tashkent, and Tiflis), 22h. (near Berkeley), 23h. (Branner, Fresno, Mount Wilson, Pasadena, Riverside, and near Tucson (2)).

Oct. 22d. 3h. 58m. 19s. Epicentre $1^{\circ}3'N$. $30^{\circ}3'W$. (as on 1934 May 22d.). X.

$$A = +.8631, B = -.5044, C = +.0227; \quad \delta = -12;$$

$$D = -.505, E = -.863; \quad G = +.020, H = -.011, K = -1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	N. 41.4	243	e 8 11	+27	—	—	21.7	26.1
Granada	43.5	32	e 8 41	+40	—	—	—	—
Huancayo	46.7	252	e 8 25	- 1	—	—	25.3	—
Paris	55.2	26	—	—	e 17 29	+17	27.7	—
Oxford	56.0	22	—	—	e 17 26	+ 3	—	—
Kew	56.1	22	—	—	e 17 32	+ 8	e 25.7	—
Strasbourg	57.4	29	e 9 41?	- 5	e 17 41?	- 1	e 26.7	—
Uccle	57.5	25	—	—	e 17 48	+ 5	e 24.7	—
Stuttgart	58.3	30	e 9 55	+ 3	e 17 54	+ 1	e 29.7	—
De Bilt	58.8	25	—	—	18 8	+ 8	e 25.7	30.2
Edinburgh	58.8	18	—	—	e 18 23	+23	e 25.7	—
Copenhagen	64.4	25	—	—	19 24	+12	31.7	—
Ksara	69.6	55	e 11 6	- 2	e 20 29	+13	33.7	41.7
Sverdlovsk	89.4	34	—	—	e 25 0	+70	41.7	—
Tashkent	96.3	49	—	—	e 24 47	- 7	c 47.4	58.3

Additional readings:—

Huancayo e = +2m.24s., +19m.43s., +24m.15s., and +24m.44s.

Stuttgart e = +13m.35s.

Ksara ePP = +13m.50s.

Sverdovsk e = +29m.47s.

Tashkent e = +31m.17s. and +37m.53s.

Long waves were also recorded at Stonyhurst, San Fernando, Tiflis, and Tucson.

Oct. 22d. 22h. Epicentre probably west of Sumatra.

Medan eP = 1m.35s., iS = 2m.34s.

Phu-Lien 4m., L = 11m.

Batavia e = 4m.9s.

Calcutta eN = 4m.25s., e = 8m.17s.

Bombay eEN = 5m.45s.

Andijan eP = 8m.5s.

Frunse eP = 8m.18s.

Tashkent eP = 9m.51s., eS = 17m.5s., M = 24m.0s.

Sverdlovsk P = 10m.19s., eS = 18m.19s., L = 30m.

Ksara eP = 10m.35s., eS = 19m.31s., M = 39m.

Long waves were also recorded at Hong Kong, Nanking, and Vladivostok.

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Oct. 22d. 23h. 49m. 23s. Epicentre 68°·5N. 19°·5W. (as on 1933 Oct. 5d.). R.2.

A = +·3455, B = -·1223, C = +·9304; $\delta = -3$;
D = -·334, E = -·943; G = +·877, H = -·311, K = -·367.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Scoresby Sund	2·2	337	1 12	+41	2 1	+64	2·6	—
Reykjavik	4·5	194	0 58	- 6	1 33	-22	—	—
Bergen	13·2	115	e 2 59	- 6	e 6 5	+33	—	—
Edinburgh	14·6	141	—	—	e 5 53	-12	—	8·1
Durham	16·0	140	—	—	e 6 39	+ 1	—	9·6
Rathfarnham Castle	16·4	151	—	—	i 6 46	- 2	—	10·8
Stonyhurst	16·7	142	—	—	e 6 38	-17	8·6	9·3
Bidston	16·9	144	—	—	e 6 55	- 4	8·6	9·8
Upsala	18·0	100	4 9	+ 2	7 31	+ 6	e 9·6	11·8
Oxford	18·9	143	—	—	i 7 23	-21	e 8·1	10·5
Copenhagen	19·3	116	4 21	- 1	7 51	- 1	8·6	—
Kew	19·4	142	i 4 18k	- 5	e 7 44	-10	8·6	10·6
De Bilt	20·2	132	i 4 29k	- 3	8 3	- 7	e 8·6	13·8
Hamburg	20·3	122	e 4 27k	- 6	i 8 9	- 3	e 11·6	13·6
Jersey	21·1	147	i 4 52	+11	i 8 16	-12	9·7	11·1
Uccle	21·1	135	i 4 37	- 4	i 8 20	- 8	e 9·6	—
Paris	22·5	140	e 4 47	- 9	8 44	-11	10·6	11·6
Pulkovo	22·6	88	i 5 6	+ 9	9 16	+19	12·1	13·5
Jena	23·0	123	e 4 59	- 2	e 9 7	+ 2	e 12·6	17·1
Cheb	24·0	124	e 5 15	+ 5	e 12 45	L	(e 12·8)	—
Strasbourg	24·0	132	5 11a	+ 1	i 9 22	- 1	e 11·6	26·1
Stuttgart	24·3	130	e 5 10a	- 3	e 9 24	- 4	e 11·6	16·2
Prague	24·7	121	5 13k	- 4	9 36	0	e 14·0	16·1
Basle	24·9	133	e 5 17	- 2	e 9 38	- 1	—	—
Zurich	25·4	132	e 5 20	- 4	e 9 44	- 4	—	—
Chur	26·1	132	e 5 28	- 2	—	—	—	—
Vienna	26·9	120	e 5 38	+ 1	e 10 16	+ 2	—	—
Graz	27·6	122	—	—	e 10 37	+12	e 18·4	—
Moscow	28·2	88	5 58	+ 9	e 10 51	+16	e 13·8	16·0
Zagreb	28·9	123	e 5 55	0	—	—	—	—
Barcelona	29·4	146	—	—	e 12 48	?	e 15·1	26·8
Granada	32·5	150	e 6 31	+ 4	e 11 38	- 5	—	—
Sverdlovsk	35·6	68	7 22	+28	13 3	+33	18·3	20·1
Theodosia	36·2	102	(e 7 6)	+ 6	e 7 6	P	25·6	—
Yalta	36·2	103	(e 7 8)	+ 8	e 7 8	P	21·3	—
Ottawa	36·3	261	—	—	e 13 7	+26	e 18·6	—
Toronto	39·2	262	—	—	e 13 51	+27	21·6	—
Grozny	41·4	92	7 55	+11	e 18 47	?	34·1	—
Tiflis	42·5	95	e 8 1	+ 8	e 14 21	+ 8	e 20·6	—
Ksara	46·3	109	i 8 27k	+ 4	e 15 18	+ 9	—	—
Florissant	47·4	269	—	—	i 16 10	+46	e 26·2	—
Tashkent	51·7	73	e 12 11	PPPP	e 16 25	+ 1	—	—
Tucson	60·7	285	i 10 31a	+22	i 21 22	SS	e 31·1	—
Mount Wilson	z. 61·4	291	i 10 37	+23	—	—	—	—
Calcutta	N. 76·4	65	e 16 51	PPPP	—	—	—	—

Additional readings:—

Edinburgh i = +7m.6s.

Durham +7m.17s.

Rathfarnham Castle iS = +7m.49s.

Stonyhurst i = +6m.48s., +7m.49s., +8m.6s., and +8m.20s.

Copenhagen +8m.13s. = SSS +0s.

Hamburg = +4m.31s.

Jersey i = +9m.7s., and +9m.28s.

Jena ePE = +5m.3s.

Strasbourg i = +5m.23s.

Stuttgart iP = +5m.13s., eZ = +5m.35s.

Toronto e = +17m.51s.

Ksara ePP = +10m.7s.

Florissant eN = +19m.36s., iZ = +19m.44s.

Mount Wilson eZ = +12m.55s.

Long waves were also recorded at Vermont, Philadelphia, Chicago, Baku, Almeria, Tortosa, Ivigtut, and Karlsruhe.

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Oct. 22d. Readings also at 4h. (Tiflis, near San Javier, and Santiago), 5h. (Ksara and Tiflis), 7h. (Manila, near Erevan, and Tiflis (2)), 8h. (Andijan, Frunse, Semipalatinsk, Baku, Tashkent, Sverdlovsk, Vladivostok, Mount Wilson (2), and Pasadena (2)), 9h. (Christchurch), 10h. (Adelaide, Melbourne, Riverview, Sydney, Perth, Hong Kong, Bombay, Paris, Nanking, Ksara, Baku, Tashkent, Sverdlovsk, Granada, Mount Wilson, Pasadena, Tinemaha, and Tucson), 11h. (Copenhagen, Strasbourg, Stuttgart, and Tiflis), 12h. (Mizusawa), 13h. (Santiago and La Plata), 14h. (near Santiago), 15h. (Mizusawa), 16h. (Apia, Christchurch, Wellington, Vladivostok, Sverdlovsk, Tashkent, Stuttgart, Riverview, Ksara, Mount Wilson, Pasadena, Santa Barbara, and Tucson), 17h. (Oak Ridge), 18h. (Mount Wilson, Pasadena, and Tucson), 23h. (Husan).

Oct. 23d. 0h. 0m. 12s. Epicentre 68°·5N. 19°·5W. (as on 1936 Oct. 22d.). R.3.

A = +·3455, B = -·1223, C = +·9304; $\delta = -3$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	2·2	337	1 13	+42	2 2	+65	2·8	—
Reykjavik	4·5	194	0 58	- 6	1 33	-22	—	—
Bergen	13·2	115	3 3	- 2	—	—	c 6·1	—
Edinburgh	14·6	141	—	—	i 6 38	+33	—	8·0
Rathfarnham Castle	16·4	151	—	—	i 6 42	- 6	—	10·5
Stonyhurst	16·7	142	—	—	e 6 19	-36	8·3	9·1
Bidston	16·9	144	—	—	e 7 41	-18	8·8	9·1
Upsala	18·0	100	e 4 8	+ 1	7 28	+ 3	e 8·8	10·8
Oxford	18·9	143	—	—	i 7 40	- 4	e 8·2	10·4
Copenhagen	19·3	116	4 20	- 2	7 50	- 2	8·8	—
Kew	19·4	142	i 4 16k	- 7	e 7 42	-12	8·8	10·7
De Bilt	20·2	132	—	—	e 8 1	- 9	e 8·8	13·8
Hamburg	20·3	122	e 4 30	- 3	i 8 8	- 4	e 10·4	11·8
Jersey	21·1	147	—	—	i 8 15	-13	9·3	11·0
Uccle	21·1	135	e 4 35	- 6	i 8 18	-10	e 9·8	—
Paris	22·5	140	—	—	e 8 49	- 6	11·8	12·8
Pulkovo	22·6	88	i 5 7	+10	9 21	+24	11·9	12·7
Cheb	24·0	124	—	—	e 9 29	+ 6	—	17·8
Strasbourg	24·0	132	e 4 48?	-22	—	—	—	—
Stuttgart	24·3	130	e 5 13	0	e 9 24	- 4	c 11·7	16·2
Prague	24·7	121	e 5 17	0	e 9 29	- 7	e 13·3	15·8
Basle	24·9	133	e 5 15	- 4	e 9 47	+ 8	—	—
Neuchatel	25·3	134	e 5 18	- 5	e 9 31	-15	—	—
Zurich	25·4	132	e 5 19	- 5	e 9 41	- 7	—	—
Moscow	28·2	88	6 2	+13	e 11 5	+30	14·0	16·0
Zagreb	28·9	123	e 5 15	-40	e 8 14	?	e 17·1	—
Granada	32·5	150	e 5 48?	-39	—	—	—	—
Algiers	34·1	147	—	—	i 8 36	PPPP	17·8	—
Sverdlovsk	35·6	68	i 7 23	+29	15 7	SSSS	18·2	20·7
Tiflis	42·5	95	7 58	+ 5	e 14 1	-12	18·9	26·9
Baku	45·5	91	—	—	(13 48?)	-69	13·8	—
Ksara	46·3	109	i 8 27	+ 4	e 15 18	+ 9	—	—
Tashkent	51·7	73	e 9 0	- 4	(e 16 0)	-24	e 16·0	18·6
Tucson	60·7	285	e 10 30	+21	—	—	e 31·3	—
Mount Wilson	61·4	291	i 10 38	+24	—	—	—	—
Bombay	73·3	81	—	—	e 19 48?	-72	—	—

Additional readings :—

Bergen i = +3m.12s.

Edinburgh i = +6m.51s. and +7m.4s.

Rathfarnham Castle iS = +7m.46s.

Stonyhurst i = +7m.37s.

Oxford i = +6m.25s.

Copenhagen +8m.11s. = SS + 2s.

Kew iNZ = +11m.36s.

Jersey i = +8m.28s., +8m.39s., and +10m.24s.

Sverdlovsk i = +16m.45s.

Ksara ePP = +10m.9s.

Tashkent e = +9m.40s., +9m.56s., and +11m.4s.

Mount Wilson iZ = +12m.53s.

Long waves were also recorded at St. Louis, San Fernando, Berkeley, Madison,

Ivigtut, Uklah, Vladivostok, Vienna, and Göttingen.

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Oct. 23d. 6h. 24m. 25s. Epicentre 61°·3N. 150°·7W. N.1.

A = -·4188, B = -·2350, C = +·8771; $\delta = -8$;
D = -·489, E = +·872; G = -·765, H = -·429, K = -·480.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
College	3·8	18	i-0 8	-62	—	—	—	—
Sitka	8·9	112	1 56	-10	—	—	—	—
Seattle	21·1	117	e 4 46	+ 5	8 7	-21	9·3	—
Saskatoon	25·3	91	e 5 26	+ 3	e 9 58	+12	—	—
Ferndale	E. 26·2	128	e 5 48	+17	e 10 42	+40	—	—
Butte	26·6	108	5 37	+ 2	i 10 34	+25	12·7	—
Bozeman	27·6	106	e 5 42	- 2	e 10 18	- 7	—	—
Ukiah	27·9	129	e 5 45	- 1	e 11 0	+30	—	—
Berkeley	29·3	129	e 5 57	- 2	e 10 57	+ 4	—	—
San Francisco	29·4	129	e 5 38	-22	e 10 35	-20	—	—
Branner	E. 29·8	129	e 6 2	- 1	—	—	—	—
Lick	N. 30·0	129	e 6 4	- 1	—	—	—	—
Fresno	N. 31·3	126	e 6 14	- 3	—	—	—	—
Tinemaha	N. 31·5	125	e 6 18	0	i 11 38	+10	—	—
Haiwee	32·5	125	e 6 26	- 1	e 11 46	+ 3	—	—
Santa Barbara	33·3	128	i 6 33	- 1	e 12 15	+20	—	—
Mount Wilson	34·1	127	i 6 41	0	—	—	—	—
Pasadena	34·2	127	i 6 40	- 2	e 11 56	-13	e 17·2	—
Riverside	34·6	127	i 6 43	- 3	e 12 14	- 1	—	—
Denver	35·1	107	e 6 55	+ 5	e 12 27	+ 4	e 16·9	20·7
La Jolla	35·7	127	i 6 53	- 2	i 12 39	+ 7	—	—
Tucson	38·8	119	7 19 ^a	- 3	e 13 19	+ 1	e 18·4	—
Des Moines	38·9	93	e 7 29	+ 6	e 13 24	+ 4	e 16·2	—
Madison	39·9	88	e 7 29	- 2	i 13 42	+ 7	e 19·5	—
Honolulu	40·3	189	e 6 41	-54	e 13 40	- 1	—	—
Chicago (Loyola)	41·6	89	e 7 43	- 2	i 14 0	0	—	—
Chicago	41·7	89	e 7 45	- 1	14 3	+ 1	18·7	—
Florissant	42·7	94	i 7 51	- 3	i 13 49	-27	e 18·1	22·1
St. Louis	E. 42·9	94	e 7 53	- 3	i 14 16	- 3	e 21·3	22·9
Ann Arbor	43·2	84	e 8 5	+ 7	i 14 41	+17	i 21·0	28·1
Scoresby Sund	43·4	24	8 4	+ 4	14 52	+25	17·6	—
Ivigut	44·1	43	8 10	+ 4	14 52	+15	21·6	—
Toronto	44·2	79	e 8 4	- 2	i 14 40	+ 1	i 21·1	24·6
Ottawa	44·6	75	8 9	- 1	14 53	+ 9	21·1	—
Buffalo	45·0	79	i 8 15	+ 2	—	—	—	—
Little Rock	45·0	99	e 8 8	- 5	e 14 52	+ 2	e 22·4	24·4
Mizusawa	E. 46·2	276	e 8 23	+ 1	e 15 43	+36	—	—
Ithaca	46·5	78	e 8 31 [?]	+ 6	i 15 21 [?]	+ 9	—	—
Vermont	46·5	74	i 8 26	+ 1	i 15 6	- 6	i 24·3	—
Sendai	47·0	274	8 33	+ 4	—	—	—	—
Pennsylvania	47·1	80	i 8 30	+ 1	e 15 28	+ 8	—	28·7
Vladivostok	47·5	285	e 8 35	+ 3	e 15 25	- 1	16·2	31·8
Hokusima	47·6	274	8 31	- 2	15 21	- 6	—	—
Mito	48·7	273	8 45	+ 4	—	—	—	—
Oak Ridge	48·7	75	i 8 41	0	e 15 53	+10	e 21·6	—
East Machias	48·9	69	i 8 42	- 1	e 15 39	- 6	i 24·3	—
Kakioka	49·0	273	8 35	- 9	—	—	—	—
Fordham	49·0	77	i 8 43	- 1	—	—	—	—
Georgetown	49·0	81	i 8 42	- 2	—	—	—	—
Tukubasan	49·0	273	8 42	- 2	—	—	—	—
Weston	49·0	75	i 8 44	0	—	—	—	—
Philadelphia	49·1	79	i 8 43	- 1	i 15 49	+ 1	i 23·7	—
Maebasi	49·4	274	8 45	- 2	15 52	0	—	—
Kumagaya	49·4	274	8 44	- 3	—	—	—	—
Nagano	49·6	276	8 48	0	15 55	0	—	—
Tokyo	49·6	273	8 47	- 1	—	—	—	—
Oiwake	49·7	274	8 41	- 8	—	—	—	—
Kohu	50·2	274	8 57	+ 4	—	—	—	—
Mera	50·2	272	8 57	+ 4	—	—	—	—
Misima	50·5	273	8 47	- 8	—	—	—	—

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Halifax		50.7	67	e 8 55	- 2	i 16 14	+ 3	—	—
Columbia		51.0	89	e 8 59	0	e 16 17	+ 2	e 25.3	—
Gihu		51.3	274	9 2	+ 1	16 23	+ 4	—	—
Nagoya		51.4	274	e 8 57	- 5	—	—	—	—
Kameyama		51.9	274	9 31	+25	—	—	—	—
Kobe	E.	52.6	275	e 9 6	- 5	e 17 16	+39	—	—
	N.	52.6	275	e 9 8	- 3	16 53	+16	—	—
	Z.	52.6	275	e 9 7	- 4	e 16 6	-31	—	—
Wakayama		53.0	275	9 9	- 5	—	—	—	—
Sumoto		53.0	275	9 11	- 3	e 16 58	+16	e 29.6	—
Siomisaki		53.3	275	9 29	+13	—	—	—	—
Helzyo		53.5	287	e 9 31	+13	e 17 22	+33	26.0	—
Yingkow		53.8	291	—	—	16 44	- 9	—	—
Hamada		53.9	278	8 53	-28	—	—	—	—
Keizyo		54.2	285	e 9 20	- 3	e 17 13	+15	e 29.6	—
Zinsen		54.4	286	e 9 20	- 4	e 17 1	0	e 25.6	—
Taikyu		54.8	282	e 9 27	0	—	—	—	—
Tacubaya	N.	55.0	115	9 27	- 2	17 21	+12	—	—
Hukuoka		55.8	279	e 9 35	+ 1	e 17 5	-15	e 26.3	—
Hukuoka B		55.8	279	e 9 43	+ 9	e 17 14	- 6	—	—
Unzendake		56.6	279	10 5	+25	—	—	—	—
Nagasaki		56.8	279	9 39	- 3	—	—	—	—
Bergen		56.9	14	9 44	+ 2	17 41	+ 6	e 28.1	37.6
Upsala		58.5	8	9 52	- 2	17 57	+ 1	e 26.6	36.7
Pulkovo		58.9	1	i 9 56	- 1	e 18 3	+ 2	30.6	31.6
Sverdlovsk		59.3	342	i 10 9	+ 9	i 18 19	+12	36.8	37.4
Edinburgh		60.0	21	e 10 15	+11	i 18 23	+ 7	28.6	39.6
Durham		61.4	20	i 10 20	+ 6	18 45	+11	—	38.6
Zi-ka-wei	Z.	62.0	285	e 10 14	- 4	18 35	- 7	33.6	41.0
Rathfarnham Castle		62.0	24	i 10 32	+14	i 19 6	+24	31.6	40.6
Stonyhurst		62.1	22	i 10 36	+17	i 18 46	+ 3	28.6	39.6
Copenhagen		62.3	12	i 10 18 _a	- 2	18 44	- 2	30.6	—
Nanking		62.5	288	e 10 18	- 4	19 2	+14	i 32.8	41.8
Bidston		62.5	23	i 10 37	+15	i 19 9	+21	30.6	39.7
Moscow		62.8	356	e 10 22	- 2	18 55	+ 3	31.3	40.2
Hamburg		64.1	14	i 10 34 _a	+ 1	i 19 18	+ 9	e 30.6	40.6
Oxford		64.3	21	10 22	-12	i 19 16	+ 5	e 28.6	41.0
Kew		64.8	20	i 10 41 _a	+ 4	i 19 23	+ 6	e 32.6	41.0
De Bilt		65.0	17	10 37	- 2	19 27	+ 7	e 30.6	45.2
Göttingen		66.1	14	i 10 43	- 3	i 19 36	+ 2	—	42.6
Uccle		66.1	18	10 44 _a	- 2	i 19 38	+ 4	e 32.6	41.2
Jersey		66.7	23	i 10 50	0	19 44	+ 3	31.7	41.1
Jena		66.9	12	e 10 50	- 1	e 19 49	+ 6	e 31.6	41.6
Cheb		67.8	12	e 11 6	+ 9	e 20 2	+ 8	36.6	39.6
Paris		67.8	19	e 10 55	- 2	e 20 14	+20	32.6	43.6
Karenko		68.0	281	10 49	- 9	—	—	—	—
Prague		68.0	11	10 55	- 3	20 4	+ 7	e 31.6	46.6
Karlsruhe		68.4	16	11 0	- 1	20 2	0	e 36.2	45.9
Almata		68.6	326	e 11 18	+16	—	—	—	—
Strasbourg		68.8	16	i 10 58 _a	- 5	20 7	0	e 33.6	45.6
Stuttgart		68.8	15	e 11 1 _a	- 2	i 20 10	+ 3	e 35.6	45.7
Frunse		69.6	327	e 11 5	- 3	e 20 33	+17	36.8	—
Basle		69.8	16	e 11 6	- 3	e 20 34	+15	—	—
Vienna		70.0	9	e 11 5	- 6	20 21	0	e 42.1	47.1
Zurich		70.1	16	e 11 8	- 3	e 20 24	+ 2	—	—
Neuchatel		70.3	17	e 11 9	- 4	e 20 27	+ 2	—	—
Chur		70.7	15	e 11 12	- 3	e 20 37	+ 7	—	—
Budapest		70.9	8	11 25	+ 9	20 41	+ 9	e 37.6	45.6
Graz		71.0	11	e 11 11	- 6	e 20 39	+ 6	e 39.6	47.6
San Juan		71.3	86	e 11 7	-12	e 20 35	- 3	e 36.3	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Tchimkent	71.4	331	11 20	+ 1	20 49	+11	—	—
Lai bach	N.W. 72.0	12	e 11 22	- 1	c 20 45	0	e 40.9	50.0
Andijan	72.1	328	11 21	- 2	21 3	+17	42.7	—
Zagreb	72.3	10	e 11 23	- 2	29 35?	SSSS	e 40.3	—
Padova	72.4	14	e 11 34	+ 9	20 56	+ 6	e 39.6	48.6
Tashkent	72.4	331	i 11 20	- 5	i 20 40	-10	e 38.3	48.8
Hong Kong	73.0	286	11 31	+ 2	20 53	- 4	—	48.7
Bagnères	73.0	23	e 12 6	+37	e 21 18	+21	e 37.6	44.6
Theodosia	73.6	356	11 32	0	21 5	+ 1	31.6	—
Belgrade	N.W. 73.6	7	i 11 32	0	i 21 6	+ 2	e 39.8	—
Marseilles	73.6	19	e 11 5	-27	(21 2)	- 2	33.6	—
Florence	73.9	14	11 35	+ 1	21 13	+ 6	—	—
Sebastopol	74.0	358	11 36	+ 1	21 11	+ 3	—	—
Piatigorsk	74.1	350	11 31	- 4	21 5	- 5	38.6	—
Yalta	74.1	357	i 11 33	- 2	21 8	- 2	30.1	—
Bucharest	74.3	3	11 38	+ 2	21 26	+14	—	42.6
Samarkand	74.5	332	i 10 11	?	—	—	—	—
Grozny	74.5	349	i 11 39	+ 2	e 21 32	+18	30.8	—
Sotchi	74.8	354	e 11 41	+ 2	—	—	42.9	—
Barcelona	74.9	22	e 11 52	+12	21 20	+ 1	33.5	48.1
Tortosa	N. 75.2	23	e 11 33	- 8	e 21 30	+ 8	e 35.6	49.5
Sofia	75.9	6	e 11 45	0	e 21 28	- 2	—	50.3
Tiflis	76.2	349	i 11 44 ^a	- 3	i 21 29	- 5	e 37.6	50.8
Manila	76.4	276	i 11 52	+ 4	i 21 35	- 1	33.6	—
Apia	76.9	200	—	—	21 35?	- 7	e 35.6	—
Baku	77.0	345	i 11 50	- 2	i 21 40	- 3	e 37.6	46.5
Capodimonte	E. 77.1	12	e 12 7	+14	e 21 47	+ 3	42.6	52.6
Phu-Lien	77.7	291	e 11 53	- 3	e 21 57	+ 6	42.6	—
Granada	77.8	28	i 12 3	+ 6	i 21 57	+ 5	—	—
San Fernando	78.1	30	e 12 1	+ 3	i 22 20	+25	37.1	—
Almeria	78.5	26	e 12 10	+10	i 22 13	+14	e 41.4	—
Algiers	79.6	22	i 12 4	- 2	e 22 9	- 2	34.6	45.6
Agra	83.2	318	e 12 22	- 2	22 32	-17	—	—
Calcutta	N. 83.8	307	12 34	+ 7	22 48	- 7	39.4	47.7
Ksara	84.7	355	i 12 29 ^a	- 3	i 23 4	- 1	—	—
Helwan	88.8	359	—	—	i 23 35	-10	—	58.7
Hyderabad	92.1	314	—	—	23 50	[+ 5]	40.0	57.6
Bombay	92.6	319	e 13 2	- 7	23 35	[-13]	43.6	51.5
Huancayo	93.7	109	13 10	- 4	24 22	- 8	42.7	—
Dakar	95.5	45	i 13 13	-10	—	—	—	66.6
Medan	96.5	290	—	—	i 24 13	[+ 5]	e 49.6	—
Kodaikanal	E. 99.2	313	e 13 54	+14	25 39	+20	i 46.9	54.2
La Paz	100.9	104	e 13 55	+ 7	i 24 25	[- 5]	47.6	69.1
Colombo	101.4	308	18 5	PP	—	—	—	55.3
Batavia	101.4	278	17 35	PP	24 36	[+ 3]	e 54.6	—
Riverview	106.1	227	—	—	e 24 53	[- 2]	51.0	56.4
Christchurch	109.0	207	e 17 33 ^a	[-42]	e 26 35	{+35}	e 44.7	51.0
Adelaide	111.9	237	e 13 41	-59	—	—	48.9	63.3
Melbourne	112.0	230	e 19 9	PP	i 27 14	{+53}	48.0	66.9
Rio de Janeiro	118.3	86	e 27 23	S	(e 27 23)	{+18}	e 52.6	—
La Plata	121.4	106	20 47	PP	—	—	61.5	—
Cape Town	151.8	19	—	—	i 33 58	SKSP	71.1	85.0

College i = +8s. and +29s.
 Sitka e = +2m.5s., i = +2m.11s., and +2m.50s.
 Seattle eP = +4m.51s., ePP = +5m.2s., ePPP = +5m.20s., e = +5m.51s.,
 +6m.10s., +8m.48s., and +8m.52s. = SS - 2s.
 Ferndale ePN = +5m.54s., eN = +10m.18s. and +10m.33s., eE = +12m.15s.
 Butte P = +5m.45s., e = +5m.56s., e = +9m.40s.
 Bozeman e = +10m.28s., S = +10m.31s., SSS = +12m.39s.
 Ukiah SSS = +12m.8s.
 Berkeley iNZ = +6m.3s., e = +6m.8s., eEN = +11m.1s.
 Branner eN = +6m.6s., iN = +6m.42s., iE = +6m.47s., iN = +6m.57s., iE =
 +7m.1s., i = +7m.24s., iN = +7m.32s.
 Lick ePE = +6m.15s.
 Pasadena iSN = +12m.15s.

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Denver eE = +7m.2s., +7m.15s., and +7m.24s., eN = +7m.28s., ePPN = +8m.19s., eEN = +8m.23s., eE = +8m.27s., eEN = +8m.35s., iSN = +12m.35s.
Tucson P = +7m.25s., ePP = +8m.51s., e = +8m.58s., +13m.29s. and +16m.19s., eSSS = +16m.33s.
Des Moines iP = +8m.55s., i = +13m.32s.; readings given at 0h.
Madison ePP = +8m.51s., ePPP = +9m.19s., eSS = +16m.25s., eSSS = +17m.1s.
Honolulu P = +7m.35s., ePP = +9m.10s., ePPP = +9m.58s., iS = +13m.47s., e = +14m.17s., SS = +16m.48s., SSS = +17m.23s.
Chicago i = +9m.40s., e = +13m.42s. and +16m.0s., eSS = +16m.32s., e = +16m.56s. and +17m.11s.
Florissant iPP = +7m.57s., iP_cP = +8m.43s., ePPEN = +9m.19s., iPPZ = +9m.21s., iSE = +14m.17s., iSP = +14m.28s., iSSN = +17m.0s., eSSN = +17m.6s., iSSSN = +18m.34s.
St. Louis iPE = +7m.59s., iPPEN = +9m.52s., eS_cPE = +14m.5s., iSE = +14m.27s., eSSE = +16m.59s.
Ann Arbor iPP = +9m.59s., eS = +17m.47s., iSSSE = +19m.17s.
Scoresby Sund i = +9m.55s., +18m.11s.
Ivigut +10m.5s. and +17m.43s.
Toronto iPP = +9m.55s.; T₀ = 6h.24m.26s.
Ottawa PP = +9m.45s., SS = +17m.57s.; T₀ = 6h.24m.18s.
Buffalo PP = +18m.9s.
Little Rock iPEN = +8m.10s., iPEN = +8m.15s., iPPN = +10m.7s., eN = +14m.46s., eSEN = +15m.0s., eSSN = +18m.15s.
Ithaca eN = +10m.17s.? iSSE = +18m.13s.? eN = +18m.21s.? iN = +19m.13s.? Vermont i = +9m.31s., iPP = +10m.17s., i = +10m.28s., +15m.12s., +15m.16s., and +15m.23s., e = +18m.0s., iSS = +18m.9s., i = +18m.37s., +18m.46s., and +21m.43s.
Pennsylvania i = +8m.40s., e = +19m.5s., and +23m.23s., i = +24m.54s.
Oak Ridge iP_cPZ = +10m.6s., iPEZ = +10m.36s., P_cSZ = +14m.4s., eN = +17m.52s., iS_cS = +18m.38s., iSS = +19m.42s.
East Machias i = +8m.48s., iPP = +10m.41s., i = +15m.53s., iS_cS = +18m.31s., iSS = +19m.21s., i = +20m.1s., +21m.31s., and +22m.54s.
Fordham iP_cP = +9m.47s.
Weston P_cP = +10m.2s., PP = +10m.51s., PS = +15m.57s., SS = +19m.44s.
Philadelphia i = +8m.48s., +10m.25s., +10m.41s., +16m.7s., +18m.49s., +18m.53s., +19m.24s., and +21m.2s.
Columbia e = +19m.4s., eSS = +19m.54s.
Zinsen ePPN = +11m.16s.
Bergen e = +19m.35s.
Upsala PP = +13m.29s., iE = +19m.43s. = S_cS + 1s., iN = +19m.58s.
Sverlovsk L_a = +29.3m.
Edinburgh i = +11m.58s., +13m.56s., +14m.12s., and +18m.40s.
Zi-ka-wei iZ = +10m.35s., PPZ = +12m.43s., PPPZ = +14m.25s., PPPZ = +15m.27s., iZ = +19m.17s., SSZ = +23m.9s., SSSZ = +25m.27s., SSSSZ = +26m.23s.
Rathfarnham Castle i = +12m.33s., +14m.46s., +19m.6s., +20m.14s. = S_cS + 8s., +22m.23s., and +24m.23s.
Stonyhurst i = +19m.6s.
Copenhagen PP = +12m.39s., PPP = +14m.11s., SE = +18m.50s., e = +20m.11s., iE = +20m.32s., SS = +23m.11s., SSS = +25m.53s.
Nanking iEN = +10m.29s., PPE = +12m.51s., PPP = +14m.27s., SSE = +23m.51s., iEN = +24m.39s., SSSE = +26m.3s., SSSSE = +28m.3s.
Bidston iPS = +19m.42s., e = +27m.7s.
Kew iZ = +10m.53s., iPPZ = +13m.8s., iSN = +19m.27s., iPS = +19m.40s., iZ = +20m.4s., iS_cSEN = +20m.46s., eSSEN = +23m.34s., eN = +27m.16s.
De Bilt iPPZ = +13m.2s., iPPPZ = +14m.20s.
Göttingen iPEN = +10m.47s., iPPNZ = +13m.17s., eSNZ = +19m.53s.
Uccle PPN = +13m.19s., PPPN = +15m.17s., iPSN = +19m.56s., iSSN = +24m.10s.
Jersey e = +11m.55s. and +13m.8s., iPP? = +13m.48s., i = +15m.15s., +17m.2s., +20m.2s., +21m.3s., +23m.24s., and +25m.13s.
Jena eE = +15m.21s. = PPPP - 1s.
Strasbourg ePP = +13m.38s., ePPPP = +16m.5s., iPS = +20m.28s., i = +20m.55s., SS = +24m.25s., SSSS = +29m.27s., M = +45m.35s.
Stuttgart iNZ = +11m.15s., ePP = +13m.39s., e = +16m.5s.
Vienna P_cP = +11m.37s., PP = +13m.38s., PS = +20m.50s.
Budapest iE = +11m.35s., eN = +11m.37s. and +11m.41s., iE = +11m.45s., eSE = +20m.49s., eE = +21m.1s., eN = +21m.21s., eE = +21m.29s., iN = +21m.45s., iE = +21m.57s.
Graz iPS = +20m.59s.
San Juan ePP = +14m.10s., e = +19m.51s., ePS = +20m.45s., S_cS = +21m.24s., e = +21m.39s., SS = +25m.0s., eSSS = +28m.38s.
Lalbach iNW = +11m.35s.
Hong Kong PP = +14m.21s., S_cS? = +21m.12s., SS = +25m.44s.
Bagnères ePS = +21m.48s.

Continued on next page.

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Belgrade iNW = +12m.35s., ePPNW = +14m.26s., iPKPNW = +22m.0s.
 Marseilles ePP = +13m.50s., i = +23m.3s. and +24m.20s.; the true S is given as PS.
 Bucharest PPEN = +14m.35s., PPPN = +16m.4s., PSN = +22m.0s., PSE = +22m.2s., SSN = +26m.27s.
 Tiflis P_cPZ = +12m.9s., ePPZ = +14m.44s., PPPN = +16m.35s., SKSN = +21m.47s., SKKSN = +22m.15s., eSSN = +26m.24s., eEN = +30m.53s.
 Algiers i = +12m.43s., e = +15m.5s., e? = +18m.31s.; iPS = +22m.27s.
 Agra eN = +12m.28s., ePPEN = +15m.32s., PSE = +23m.12s.
 Calcutta PPN = +15m.42s., PSN = +23m.33s.
 Ksara PP = +15m.49s., PS = +23m.57s.
 Helwan i = +23m.55s. and +26m.5s.
 Bombay PP = +16m.48s., e = +20m.39s., PPS = +25m.56s., SS = +30m.42s.
 Huancayo ePP = +16m.40s., eSKS = +23m.47s., ePS = +25m.36s.
 Dakar iPP = +17m.3s., eSS = +31m.0s., iSSS = +32m.49s.
 Kodaikanal iPPE = +17m.55s., iSKSE = +24m.29s., iPSE = +26m.48s., iPPSE = +27m.37s., iSSE = +32m.37s., iSSSE = +36m.19s.
 La Paz PPZ = +17m.59s., iSKKSN = +24m.47s., SKKSE = +24m.56s., PSN = +27m.1s., iSSN = +32m.15s.
 Riverview iEN = +26m.25s.
 Christchurch eN = +24m.35s., SNZ = +28m.6s.
 Adelaide e = +18m.57s., e = +28m.28s., e = +34m.42s. = SS - 2s.
 Melbourne i = +29m.5s. and +34m.57s.
 Cape Town iPPSN = +36m.30s., iSSE = +43m.18s.
 Long waves were also recorded at Reykjavik, Perth, Sydney, and Wellington.

Oct. 23d. 16h. 25m. 28s. Epicentre 61°·3N. 150°·7W. (as at 6h.). X.

A = -·4188, B = -·2350, C = +·8771; δ = -8.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
College	3·8	18	-0 43	-97	0 6	-91	1·0	—
Sitka	8·9	112	—	—	e 4 14	S*	4·9	—
Ukiah	27·9	129	e 4 32?	-74	e 11 32?	+62	—	—
Tinemaha	N. 31·5	125	e 6 22	+ 4	—	—	—	—
Haiwee	32·5	125	e 6 29	+ 2	—	—	—	—
Mount Wilson	34·1	127	i 6 33	- 8	—	—	—	—
Riverside	34·6	127	i 7 6	+20	—	—	—	—
La Jolla	35·7	127	e 7 5	+10	—	—	—	—
Tucson	38·8	119	e 7 12	-10	e 13 24	+ 6	e 19·3	—
Madison	39·9	88	—	—	e 16 32?	SSS	—	—
Chicago	41·7	89	—	—	e 13 46	-16	—	—
Florissant	42·7	94	e 7 52	- 2	e 17 22	SS	i 22·0	25·7
Ottawa	44·6	75	—	—	e 14 44	0	e 21·5	—
Vermont	46·5	74	—	—	e 14 49	-23	e 22·1	—
Vladivostok	47·5	285	—	—	e 15 20	- 6	22·6	31·4
Weston	49·0	75	i 8 38	- 6	—	—	—	—
Philadelphia	49·1	79	e 8 37	- 7	e 15 42	- 6	e 23·0	—
Chiufeng	57·0	295	e 17 25?	S	(e 17 25?)	-11	e 29·0	38·4
Pulkovo	58·9	1	e 10 9	+12	e 18 5	+ 4	31·5	—
Sverdlovsk	59·3	342	e 10 9	+ 9	—	—	24·5	33·0
De Bilt	65·0	17	—	—	e 19 20	0	e 34·5	—
San Juan	71·3	86	—	—	e 20 17	-20	e 36·8	—
Tashkent	72·4	331	e 17 14	PPPP	e 20 34	-16	e 35·2	47·6
Tiflis	76·2	349	e 11 48	+ 1	e 21 24	-10	40·5	49·1
Ksara	84·7	355	e 12 26	- 6	e 23 32	+27	46·5	53·5

Additional readings:—

College eP* = -33s., ePS = -14s., e = -2s., and +2s., S* = +19s., S_r = +28s.

Sitka e = +4m.21s. and +4m.36s.

Mount Wilson iZ = +6m.43s.

Tucson eSS = +16m.19s.

Chicago e = +13m.53s., +19m.59s., and +20m.17s.

Florissant eZ = +17m.35s.

Ottawa e = +18m.8s.

Vermont e = +16m.14s., +18m.24s., and +21m.44s.

Philadelphia e = +14m.10s., +16m.4s., +19m.10s., and +19m.28s.

San Juan e = +25m.33s. and +28m.50s.

Tashkent e = +25m.14s.

Long waves were also recorded at Baku and other American and European stations.

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Oct. 23d. 19h. Shock in S.W. Pacific.

Adelaide iP = 34m.0s., i = 36m.33s., iS? = 37m.9s., i = 37m.21s., M = 38m.54s.
 Perth eP = 35m.0s., i = 39m.0s., M = 41m.0s.
 Riverview ePEN = 35m.15s., eSE = 39m.17s., eSN = 39m.19s., eL = 40m.54s.,
 M = 43m.34s.
 Melbourne e = 36m.52s., i = 36m.58s. and 37m.37s., M = 41m.24s.
 Sydney eP = 37m.24s., iS = 39m.12s., L = 40m.40s., M = 42m.0s.
 Christchurch ePE? = 38m.56s., iS = 42m.12s., L = 43m.42s., M = 45m.32s.
 Arapuni i = 46m.
 Pasadena iPZ = 49m.16s.
 Mount Wilson ePZ = 49m.17s., iZ = 49m.24s.
 Little Rock ePEN = 49m.45s., iEN = 50m.25s., eN = 50m.48s.
 Ksara e = 50m.14s. and 59m.54s., M = 92m.30s.
 Tashkent e = 55m.0s., 62m.42s., and 73m.42s., M = 91m.6s.
 Tiflis eP = 55m.23s., eS = 66m.32s., eL = 82m., M = 97.5m.
 Sverdlovsk e = 62m.3s., L = 77m.
 Long waves were also recorded at Wellington, Pulkovo, and some European stations.

Oct. 23d. Readings also at 1h. (near Erevan), 2h. (Reykjavik, Edinburgh, De Bilt, Uccle), 3h. (Edinburgh, Copenhagen, Strasbourg, Uccle, Philadelphia, Tucson, Pasadena, Riverside, and San Juan), 4h. (De Bilt, Paris, Stuttgart, and Manila), 5h. (near Frunse), 6h. (Pasadena, Mount Wilson, Riverside, Balboa Heights, College, and Zurich), 7h. (College), 8h. (Riverview, Perth, Adelaide, Wellington, Husan, College (2), Mount Wilson, Pasadena, Riverside, Tinemaha, and Tucson), 10h. (College), 11h. (Mount Wilson, Pasadena, College (2), and Ksara), 12h. (Ksara, Moscow, Sverdlovsk, Tashkent, Balboa Heights, Mount Wilson, and Pasadena), 13h. (Graz and Sverdlovsk), 14h. (Ksara, Erevan, Tiflis, Strasbourg (2), Padova, Ravensburg, near Stuttgart, and Zurich), 15h. (Chicago, Ottawa, Philadelphia, Vermont, Tucson, La Jolla, Mount Wilson, Pasadena, Tinemaha, College, and Sverdlovsk), 16h. (Tashkent), 18h. (Arapuni), 21h. (Wellington), 23h. (College and near Piatigorsk).

Oct. 24d. 8h. 8m. 21s. Epicentre 35°·7N. 140°·4E. (as on 1936 Sept. 30). R.3.

$$A = -0.6257, B = +0.5176, C = +0.5835; \quad \delta = -12;$$

$$D = +0.637, E = +0.771; \quad G = -0.450, H = +0.372, K = -0.812.$$

	Δ	Az.	P.	O - C.	S.	O - C.
	°	°	m. s.	s.	m. s.	s.
Tokyo	0.5	268	0 8	+ 1	0 16	+ 3
Komaba	0.6	265	0 8	- 1	0 17	+ 2
Tukubasan	0.6	335	0 6	- 3	0 13	- 2
Mitaka	0.7	267	0 9	- 1	0 21	+ 3
Kamakura	0.8	241	0 17 _a	+ 6	0 30	+ 9
Nagoya	2.9	259	e 0 49	P _g	1 26	S*
Mizusawa	E. 3.5	9	—	—	e 1 40	S*

Oct. 24d. 14h. 6m. 15s. Epicentre 36°·0N. 22°·7E. (as on 1932 Sept. 30d.). R.2.

$$A = +0.7463, B = +0.3122, C = +0.5878; \quad \delta = -6;$$

$$D = +0.386, E = -0.923; \quad G = +0.542, H = +0.227, K = -0.809.$$

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sofia	6.6	4	e 1 40	+ 6	i 3 14	S _g	4.5	—
Istanbul	7.1	43	1 38	- 3	—	—	—	—
Capodimonte	N. 8.2	310	e 1 52	- 4	e 5 12	?	9.7	—
Bucharest	8.8	17	2 8	+ 3	e 3 56	+12	—	—
Belgrade	9.0	350	e 2 4	- 3	e 4 22	S*	—	5.2
Heiwan	9.5	128	2 13	- 1	e 4 0	- 1	—	—
Ksara	11.0	97	e 2 39	+ 4	e 4 47	+ 9	—	—
Zagreb	11.0	335	2 37	+ 2	e 4 33	- 5	—	7.0
Sebastopol	11.9	41	2 48	+ 1	—	—	—	—
Yalta	12.2	43	2 48	- 3	6 59	S _g	—	—
Graz	12.3	336	e 2 54	+ 2	e 7 23	?	e 7.7	9.2
Padova	12.5	323	e 2 45 _f	-10	—	—	—	—
Vienna	13.1	341	e 3 0	- 3	e 7 33	?	—	—
Theodosia	13.2	43	e 3 12	+ 7	—	—	—	—
Chur	14.6	322	e 3 22	- 1	e 6 35	+30	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sotchi	15.1	55	e 3 25	- 5	—	—	—	—
Prague	15.3	340	e 3 13?	-19	—	—	e 8.8	9.7
Zurich	15.4	322	e 3 30	- 4	e 6 20	- 4	—	—
Cheb	15.9	335	—	—	e 6 7	-29	e 9.0	10.7
Basle	16.1	321	e 3 39	- 4	—	—	—	—
Stuttgart	16.1	328	e 3 43	0	e 6 57	+16	e 10.3	11.1
Strasbourg	16.7	324	e 3 45?	- 5	—	—	e 9.7	—
Jena	16.8	335	e 3 45	- 7	—	—	—	—
Piatigorsk	17.5	57	e 4 3	+ 3	e 5 45	?	—	—
Erevan	17.6	70	e 4 2	0	—	—	—	—
Tiflis	18.0	65	i 4 8	+ 1	e 7 27	+ 2	9.5	12.3
Grozny	19.1	60	4 26	+ 6	—	—	—	—
Hamburg	19.7	337	—	—	e 8 45?	+45	—	—
Uccle	19.8	324	e 4 26	- 1	8 6	+ 4	e 10.7	—
Almeria	20.1	280	4 29	- 2	—	—	—	—
De Bilt	20.3	327	e 4 32	- 1	e 8 28	+16	e 10.7	13.6
Copenhagen	20.9	344	4 39	0	8 28	+ 4	11.7	—
Granada	21.1	281	e 4 43	+ 2	e 8 36	+ 8	—	—
Moscow	22.1	23	e 4 51	- 1	e 8 51	+ 3	11.9	15.5
Upsala	24.1	354	e 5 7	- 4	e 9 25	0	—	—
Pulkovo	24.2	9	5 11	- 1	9 36	+ 9	15.5	16.3
Edinburgh	26.5	327	e 8 45?	PcP	—	—	—	—
Sverdlovsk	32.7	39	i 6 38	+ 9	e 11 53	+ 7	16.7	21.3
Andijan	38.7	67	e 7 13	- 8	—	—	—	—
Frunse	40.0	63	e 7 27	- 5	—	—	—	—

Additional readings:—

Sofia i = +3m.32s. and +3m.45s.?

Bucharest iPPN = +2m.50s., eEN = +4m.25s., SSEN = +4m.54s.

Belgrade eZ = +2m.38s. and +2m.50s., eNW = +3m.29s. and +4m.54s.

Ksara i = +5m.35s.

Zagreb eZ = +4m.51s., eNE = +5m.8s., eNW = +6m.1s.

Yalta e = +9m.10s.

Theodosia e = +10m.7s.

Stuttgart e = +8m.30s., e = +9m.15s., eEN = +9m.29s.

Long waves were also recorded at Kew, Paris, and Florence.

Oct. 24d. 16h. 2m. 36s. Epicentre 30°·6N. 141°·8E. (as on 1936 Sept. 18d.). R.3.

A = -·6764, B = +·5323, C = +·5090; $\delta = -6$;

D = +·618, E = +·786; G = -·400, H = +·315, K = -·861.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Nagoya	6.2	319	e 0 37	-51	1 41	-57	—	—
Sumoto	E. 6.9	304	e 1 30	- 8	e 5 2	?	—	8.6
	N. 6.9	304	e 1 38	0	e 4 58	?	—	6.4
Kobe	E. 7.0	308	e 1 46	+ 7	3 48	S _s	—	4.9
	Z. 7.0	308	e 1 39	0	e 3 34	S*	—	5.1
Toyooka	7.7	313	—	—	e 3 48	S*	e 5.2	—
Mizusawa	E. 8.5	355	e 2 2	+ 2	e 3 25	-11	—	—
Hukuoka B	10.2	290	e 2 25	+ 1	e 5 54	S _s	—	—
Taikyu	12.2	299	e 1 10	?	—	—	—	—
Vladivostok	14.8	331	e 3 30	+ 4	—	—	7.0	10.2
Zi-ka-wei	Z. 17.5	277	e 3 55	- 5	7 31	+18	11.2	17.3
Nanking	19.7	281	e 4 31	+ 5	8 17	SS	—	16.6
Chiufeng	22.9	302	e 3 50	-70	9 8	+ 5	e 11.3	14.6
Manila	24.9	235	5 31	+12	10 6	+27	12.8	—
Calcutta	N. 48.1	274	—	—	e 15 37	+ 3	—	—
Andijan	55.8	300	e 9 23	-11	—	—	—	—
Tashkent	58.0	304	i 9 52	+ 2	i 17 57	+ 8	e 27.2	37.5
Sverdlovsk	60.1	322	i 10 19	+14	18 31	+14	29.4	—
Baku	72.1	307	11 29	+ 6	e 20 55	+ 9	e 36.4	49.4
Pulkovo	73.6	331	—	—	e 29 42	SSSS	43.4	46.3
Tiflis	75.0	311	e 11 42	+ 2	e 21 21	+ 1	e 37.4	47.8
Mount Wilson	Z. 80.7	55	e 12 13	+ 1	—	—	—	—
Pasadena	Z. 80.7	55	e 12 12	0	—	—	—	—
Ksara	85.0	309	e 12 37	+ 4	e 23 11	+ 3	—	—

For Notes see next page.

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NOTES TO OCT. 24d. 16h. 2m. 36s.

Additional readings :—

Sumoto ePZ = +1m.45s., eE = +3m.2s., cN = +3m.10s.

Kobe ePN? = +1m.51s.

Toyooka PEN? = 16h.1m.46s.

Ksara ePP = +15m.57s.

Long waves were also recorded at Hong Kong, Moscow, and some European stations.

Oct. 24d. Readings also at 0h. (Bucharest, Tifis, Oak Ridge, Husan, and near Granada), 1h. (La Paz), 3h. (Andijan and Oak Ridge), 4h. (Mizusawa), 5h. (Yalta and near Wellington), 7h. (Andijan, Tashkent, near Frunse, and near Santiago), 8h. (Samarkand), 10h. (Tacubaya), 12h. (Mount Wilson, Pasadena, and Tucson), 13h. (Little Rock), 15h. (Sebastopol, Theodosia, Ksara, Erevan, Tifis, Yalta, near Sochi, near Tucson (2), and near Wellington), 16h. (near Sumoto), 18h. (Adelaide, Melbourne, Riverview, Sydney, Wellington, Christchurch, Almata, Tashkent, Tifis, Tchimkent, Samarkand, Semipalatinsk, Ksara, Sverdlovsk, and near Andijan, and Frunse), 19h. (Tifis, Ksara, near Hukuoka, Hukuoka B (2), and near Sochi), 20h. (Malabar), 21h. (Andijan, Frunse, and Samarkand), 22h. (La Paz, Tucson, Semipalatinsk, Samarkand, near Almata, Andijan, Frunse, and Tchimkent).

Oct. 25d. 4h. 58m. 55s. Epicentre 33°·7N. 139°·0E. (as on 1935 Sept. 24d.). X.

A = -·6279, B = +·5458, C = +·5548; $\delta = -4$;
D = +·656, E = +·755; G = -·419, H = +·364, K = -·832.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·3	311	0 30	- 3	1 11	S _r	—	1·6
Kobe	3·3	289	e 0 49	+ 2	1 28	+ 3	—	1·9
Sumoto	3·5	281	0 49 _a	- 1	1 39	S*	—	1·8
Toyooka	3·9	300	0 57	+ 1	1 42	+ 2	—	1·9
Mizusawa	E. 5·7	17	e 1 21	0	e 2 24	- 1	—	—
Hukuoka B	7·1	271	e 1 44	+ 3	e 3 37	S*	—	—
Vladivostok	10·9	332	—	—	e 3 51	-45	5·2	6·5
Nanking	E. 17·0	270	e 4 0	+ 6	e 7 35	+33	e 11·0	—
Tifis	71·1	307	e 11 42	+25	—	—	38·1	42·2
Ksara	81·3	305	e 12 6	- 9	e 21 49	-41	—	—

Additional readings :—

Sumoto eSZ = +1m.42s.

Toyooka P = +1m.0s.

Long waves were also recorded at Tashkent and Sverdlovsk.

Oct. 25d. 15h. 30m. 30s. Epicentre 34°·5N. 140°·0E. (as on 1934 April 15d.). R.1.

Very near the position suggested by Japanese stations 34°·4N. 140°·0E.

A = -·6313, B = +·5297, C = +·5664; $\delta = -7$;
D = +·643, E = +·766; G = -·434, H = +·364, K = -·824.

Correction for depth of focus 0·0125 has been applied.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Mera	+0·3	0·4	342	0 11k	+ 1	0 21	+ 3	—	—
Katuura	+0·3	0·7	22	0 23	+ 9	0 33	+ 7	—	—
Kiyosumi	+0·3	0·7	11	0 13	- 1	0 26	0	—	—
Susaki	+0·3	0·8	281	0 20k	+ 4	0 36	+ 8	—	—
Ibo	+0·3	0·9	302	0 17	0	0 32	+ 1	—	—
Kamakura	+0·3	0·9	336	0 16k	- 1	0 31	0	—	—
Misima	+0·3	1·0	305	0 19k	+ 1	0 36	+ 3	—	—
Yokohama	+0·3	1·0	343	0 17k	- 1	0 32	- 1	—	—
Numadu	+0·3	1·1	302	0 20k	0	0 39	+ 3	—	—
Komaba	+0·3	1·2	347	0 19k	- 2	0 37	- 2	—	—

Continued on next page.

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	Corr. for Focus °	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	L. m.	M. m.
				m.	s.		m.	s.			
Mitaka	+0.3	1.2	342	0	8?	-13	0	26?	-13	—	—
Tokyo	+0.3	1.2	350	0	19k	-2	0	37	-2	—	0.6
Tokyo I.U.	+0.3	1.2	350	0	20k	-1	0	38	-1	—	—
Hatidyosima	+0.3	1.4	185	0	24	0	0	41	-3	—	—
Hunatu	+0.3	1.4	314	0	22k	-2	0	42	-2	—	—
Omaeseki	+0.2	1.5	274	0	26k	+2	0	47	+3	—	—
Tyosi	+0.2	1.5	30	0	21k	-3	0	39	-5	—	—
Kakioka	+0.2	1.7	5	0	24k	-4	0	45	-4	—	—
Kohu	+0.2	1.7	314	0	26k	-2	0	48	-1	—	—
Kumagaya	+0.2	1.7	343	0	26k	-2	0	49	0	—	—
Tukubasan	+0.2	1.7	3	0	24k	-4	0	45	-4	—	—
Hamamatu	+0.2	1.9	277	0	34a	+4	0	59	+5	—	—
Mito	+0.2	1.9	12	0	31k	+1	0	51	-3	—	—
Iida	+0.2	2.0	300	0	38a	+7	1	5	+8	—	—
Maebasi	+0.2	2.0	338	0	32k	+1	0	54	-3	—	—
Utunomiya	+0.2	2.1	357	0	29	-4	1	2	+3	—	—
Oiwake	+0.2	2.2	327	0	35a	+1	1	1	-1	—	—
Matumoto	+0.2	2.4	316	0	44a	+7	1	11	+4	—	—
Nagano	+0.2	2.6	326	0	39a	-1	1	8	-4	—	—
Nagoya	+0.2	2.6	285	0	40a	0	1	5	-7	—	1.4
Onahama	+0.2	2.6	17	0	28	-12	0	55	-17	—	—
Gihu	+0.2	2.8	289	0	44a	+1	1	23	+6	—	—
Takayama	+0.2	2.8	306	0	42	-1	1	18	+1	—	—
Tu	+0.2	2.8	275	0	49k	+6	1	26	+9	—	—
Kameyama	+0.1	2.9	277	0	46a	+3	1	24	+7	—	—
Takada	+0.1	3.0	331	0	43	-1	1	21	+1	—	—
Hikone	+0.1	3.2	284	0	51	+4	1	42	+17	—	—
Toyama	+0.1	3.2	314	0	47	0	1	21	-4	—	—
Hukushima	+0.1	3.3	7	0	42k	-7	1	22	-5	—	—
Husiki	+0.1	3.3	315	0	55	+6	1	34	+7	—	—
Kanazawa	+0.1	3.4	307	0	51	+1	1	29	-1	—	—
Yagi	+0.1	3.4	272	0	52a	+2	1	35	+5	—	—
Kyoto	+0.1	3.5	280	0	54a	+3	1	48	+16	—	—
Niigata	+0.1	3.5	349	1	3	+12	1	35	+3	—	—
Siomisaki	+0.1	3.6	254	0	55a	+2	1	40	+5	—	—
Osaka	+0.1	3.7	274	0	56	+2	1	51	+14	—	—
Osaka B	+0.1	3.7	274	0	56a	+2	—	—	—	—	—
Wazima	+0.1	3.8	318	0	55a	-1	1	39	-1	—	—
Yamagata	+0.1	3.8	5	0	51	-5	1	36	-4	—	—
Sendai	+0.1	3.9	10	0	51	-6	1	32	-10	—	—
Kobe	+0.1	4.0	274	0	59a	+1	i1	46	+1	—	2.0
Miyadu	+0.1	4.0	285	1	0a	+2	1	53	+8	—	—
Wakayama	+0.1	4.0	269	1	1a	+3	1	46	+1	—	—
Sumoto	+0.1	4.2	269	i1	2a	+1	i2	2	+12	—	2.1
Toyooka	0.0	4.3	285	1	3a	+2	2	16	+26	—	2.4
Mizusawa	N. 0.0	4.8	11	e1	4	-4	i1	53	-10	—	—
Okayama	0.0	4.9	274	1	12a	+2	2	43	+38	—	—
Muroto	0.0	5.0	257	1	14a	+3	2	14	+6	—	—
Tadotu	0.0	5.1	269	1	22a	+9	2	20	+10	—	—
Akita	0.0	5.2	1	0	33	-41	1	20	-53	—	—
Morioka	0.0	5.3	10	1	9	-6	2	6	-9	—	—
Koti	0.0	5.4	262	1	20a	+3	2	33	+15	—	—
Sakai	0.0	5.6	282	1	23k	+3	2	53	+30	—	—
Matuyama	0.0	6.0	266	1	25a	0	2	59	+26	—	—
Hatinoke	0.0	6.2	11	1	13	-15	2	17	-21	—	—
Hirosima	0.0	6.2	270	1	31a	+3	3	7	+29	—	—
Aomori	0.0	6.4	5	1	28	-3	2	40	-3	—	—
Hamada	0.0	6.5	276	1	35a	+3	3	16	+30	—	—
Orita	-0.1	7.0	262	1	41	+3	3	45	+49	—	—
Hakodate	-0.1	7.3	4	2	3	+21	3	38	+34	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Simonoseki	-0.1	7.5	268	1	46a	+ 1	—	—	—	—	—
Miyazaki	-0.1	7.6	253	1	50a	+ 4	3	19	+ 8	—	—
Titizima	-0.1	7.6	166	1	43	- 3	—	—	—	—	—
Kumamoto	-0.1	7.9	260	1	54a	+ 3	—	—	—	—	—
Muroran	-0.1	7.9	5	1	45	- 6	—	—	—	—	—
Hukuoka	-0.1	8.0	266	1	49	- 3	3	38	+17	—	—
Hukuoka B	-0.1	8.0	266	i 1	55a	+ 3	e 3	33	+12	—	—
Urakawa	-0.1	8.0	15	1	41	-11	3	14	- 7	—	—
Saga	-0.1	8.1	263	1	56	+ 3	3	51	+27	—	—
Unzendake	-0.1	8.3	261	2	3	+ 7	4	23	+54	—	—
Kagosima	-0.1	8.4	252	2	2	+ 4	—	—	—	—	—
Nagasaki	-0.1	8.6	261	2	4a	+ 4	3	51	+15	—	—
Sapporo	-0.1	8.7	6	2	3	+ 1	3	55	+16	—	—
Obihiro	-0.1	8.8	16	1	54	- 9	3	24	-17	—	—
Husan	-0.1	9.0	277	e 2	10	+ 4	e 4	21	+35	—	—
Taikyu	-0.1	9.4	282	i 2	13a	+ 2	e 4	9	+13	—	—
Asahigawa	-0.1	9.5	11	2	12	- 1	3	48	-11	—	—
Tomie	-0.1	9.5	262	2	16	+ 3	4	6	+ 7	—	—
Vladivostok	-0.2	10.6	326	i 2	26	+ 0	i 4	26	+ 3	4.8	7.8
Nake	-0.2	10.8	238	2	39	+10	—	—	—	—	—
Kelzyo	-0.2	10.9	290	e 2	34	+ 3	e 4	45	+14	—	—
Zinsen	-0.2	11.2	290	e 2	39	+ 4	e 4	49	+11	—	—
Heizyo	-0.2	12.2	296	e -1	22	?	e 1	21	?	2.9	—
Zi-ka-wei	z. -0.3	15.9	264	i 3	37k	+ 1	6	43	+14	9.8	11.1
Isigakizima	-0.4	17.1	238	3	23	-27	—	—	—	—	—
Nanking	E. -0.4	17.9	268	4	0	0	e 7	52	+39	—	—
Chiufeng	-0.5	19.7	293	i 4	17a	- 4	7	53	+ 3	9.0	12.2
Taito	-0.5	20.2	240	5	15	+49	—	—	—	—	—
Kosyun	-0.5	21.0	240	4	39	+ 4	—	—	—	—	—
Hong Kong	-0.7	25.7	249	5	51	PP	9	55	+14	12.6	17.7
Manila	-0.7	26.3	225	5	43	+18	10	17	+26	12.3	—
Calcutta	N. -1.2	46.4	270	e 10	37	PPPP	—	—	—	—	—
Frunse	-1.3	50.5	300	e 8	43	- 2	e 16	27	+37	—	—
Andijan	-1.4	52.6	299	e 8	37	-23	—	—	—	—	—
Tchimkent	-1.4	54.2	301	e 9	16	+ 4	e 16	46	+ 7	—	—
Tashkent	-1.4	54.7	300	i 9	18	+ 2	i 16	50	+ 4	e 28.2	35.4
Sverdlovsk	-1.4	56.1	320	i 9	38	+12	i 17	20	+15	26.5	—
Bombay	-1.5	61.0	274	e 10	0	- 1	i 18	12	+ 3	—	—
Moscow	-1.6	68.4	324	10	51	0	19	38	- 4	35.0	38.1
Baku	-1.6	68.6	306	e 11	45	+53	i 19	51	+ 6	e 33.5	—
Pulkovo	-1.6	69.5	330	10	58	0	e 19	28	-28	—	—
Grozny	-1.6	69.9	310	11	4	+ 4	20	5	+ 4	—	—
Tiflis	-1.6	71.3	309	e 11	8	- 1	i 20	18	0	37.5	45.4
Erevan	-1.6	72.2	308	e 11	20	+ 6	—	—	—	—	—
Sotchi	-1.7	73.5	313	e 11	12	-10	—	—	—	—	—
Berkeley	-1.7	74.9	55	i 11	28	- 2	—	—	—	—	—
Branner	-1.7	75.2	56	e 11	30	- 2	—	—	—	—	—
Theodosia	-1.7	75.3	316	e 11	34	+ 2	—	—	—	—	—
Lick	-1.7	75.6	55	e 11	33	- 1	—	—	—	—	—
Simferopol	-1.7	76.1	317	e 12	2	+25	e 21	12	- 1	—	—
Yalta	-1.7	76.3	316	e 11	37	- 1	—	—	—	—	—
Fresno	N. -1.7	77.2	55	e 11	43	0	—	—	—	—	—
Tinernaha	N. -1.7	78.0	54	i 11	46	- 2	—	—	—	—	—
Santa Barbara	-1.7	78.5	57	i 11	49	- 1	—	—	—	—	—
Haiwee	-1.7	78.7	54	e 11	51	- 1	—	—	—	—	—
Copenhagen	-1.7	79.4	334	11	56	0	—	—	—	41.5	—
Mount Wilson	-1.7	79.8	56	i 11	56k	- 2	—	—	—	—	—
Pasadena	-1.7	79.8	56	i 11	55k	- 3	—	—	—	—	—
Riverside	-1.7	80.4	56	e 11	57	- 4	—	—	—	—	—
La Jolla	-1.7	81.1	57	i 12	2	- 3	—	—	—	—	—
Ksara	-1.7	81.5	304	e 12	6	- 1	e 22	8	- 6	—	—
Tucson	-1.7	85.8	54	i 12	26	- 3	e 24	0	+61	e 36.0	—
La Paz	N. —	149.0	62	20	26	[+46]	—	—	—	—	—

For Notes see next page.

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NOTES TO OCT. 25d. 15h. 30m. 30s.

Additional readings:—

Kobe iPENZ = +1m.0s., iE = +1m.37s., iN = +1m.41s., iSN = +1m.49s.
 Toyooka SE = +2m.22s.
 Nanking eN = +8m.34s.
 Chiufeng ipP = +4m.37s., isSE = +8m.37s.
 Hong Kong PP? = +6m.5s., SS? = +10m.46s.
 Tchikent e = +15m.53s.
 Pulkovo e = +17m.22s.
 Tifis ePPZ = +13m.50s., PSE = +21m.0s., SSSE = +28m.21s., e = +31m.41s.
 Branner iE = +11m.42s., iE = +11m.51s., eE = +12m.0s., eN = +12m.3s.,
 iEN = +12m.11s., eE = +12m.33s.
 Ksara epP = +12m.32s., esP = +12m.44s., esS = +22m.49s., ePKPPKP = +38m.38s.

Oct. 25d. Readings also at 3h. (Samarkand), 4h. (near Berkeley and near Nagoya), 8h. (Tifis, Ksara, and Chur), 9h. (Mizusawa), 11h. (Kobe, Mizusawa, Chiufeng, Vladivostok, Tashkent, Sverdlovsk, Tifis (2), and Ksara), 13h. (Samarkand, Tashkent, Tchikent, near Andijan, and Frunse), 15h. (Paris and near Tokyo), 16h. (near Branner), 21h. (College and San Juan).

Oct. 26d. 9h. 33m. 33s. Epicentre 34°·5N. 136°·3E. N.1.
 (as given by Japanese stations).

A = -·5958, B = +·5694, C = +·5664; $\delta = 0$;
 D = +·691, E = +·723; G = -·409, H = +·391, K = -·824.

Correction for depth for focus 0·060 has been applied.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.	L.	M.
				m.	s.	s.	m.	s.				
Tu	+2·5	0·3	37	0	48	+ 8	1	22	+10	—	—	
Kameyama	+2·4	0·4	21	0	45k	+ 5	1	20	+ 8	—	—	
Yagi	+2·4	0·4	272	0	44	+ 4	1	18	+ 6	—	—	
Kyoto	+2·3	0·7	318	0	46	+ 3	1	21	+ 4	—	—	
Osaka	+2·3	0·7	283	0	46	+ 3	1	18	+ 1	—	—	
Osaka B	+2·3	0·7	283	0	46	+ 3	1	20	+ 3	—	—	
Hikone	+2·3	0·8	357	0	44k	0	1	18	- 2	—	—	
Ibukisan	+2·2	0·9	4	0	52k	+ 8	1	24	+ 4	—	—	
Nagoya	+2·2	0·9	39	i 0	46k	+ 2	i 1	22	+ 2	—	1·4	
Gihu	+2·2	1·0	23	0	47k	+ 1	1	22	0	—	—	
Kobe	+2·2	1·0	281	0	46a	0	i 1	22	0	—	3·0	
Wakayama	+2·2	1·0	254	0	46a	0	1	22	0	—	—	
Siomisaki	+2·1	1·1	203	0	47a	+ 1	1	24	+ 2	—	—	
Hammamatu	+2·1	1·2	79	0	47k	0	1	24	- 1	—	—	
Sumoto	+2·1	1·2	263	i 0	46a	- 1	i 1	20	- 5	—	1·4	
Miyadu	+2·0	1·4	319	0	46	- 3	1	25	- 2	—	—	
Iida	+1·9	1·6	51	0	49	- 1	1	28	- 2	—	—	
Toyooka	+1·9	1·6	310	0	49	- 1	1	28	- 2	—	2·0	
Takayama	+1·8	1·8	25	0	50	- 1	1	32	0	—	—	
Kanezawa	+1·8	2·0	8	0	55	+ 1	1	33	- 4	—	—	
Okayama	+1·8	2·0	275	0	53	- 1	1	33	- 4	—	—	
Tadotu	+1·7	2·1	264	0	52a	- 2	1	34	- 3	—	—	
Kohu	+1·7	2·2	59	0	54k	- 2	1	36	- 4	—	—	
Matumoto	+1·7	2·2	38	1	2	+ 6	1	47	+ 7	—	—	
Muroto	+1·7	2·2	235	0	52a	- 4	1	33	- 7	—	—	
Numadu	+1·7	2·2	74	0	55	- 1	—	—	—	—	—	
Misima	+1·6	2·3	74	0	53k	- 3	1	39	- 1	—	—	
Husiki	+1·6	2·4	15	0	56	- 1	1	40	- 2	—	—	
Koti	+1·5	2·5	248	0	55a	- 2	1	39	- 3	—	—	
Nagano	+1·5	2·6	35	0	57k	- 1	1	43	- 2	—	—	
Oiwake	+1·5	2·6	45	0	55k	- 3	1	40	- 5	—	—	
Sakai	+1·4	2·8	293	0	57	- 3	1	43	- 5	—	—	
Machasi	+1·4	2·9	50	0	59k	- 2	1	41	- 9	—	—	
Mera	+1·4	2·9	82	0	58	- 3	1	29	-21	—	—	
Warima	+1·4	2·9	10	0	59k	- 2	1	46	- 4	—	—	
Yokohama	+1·4	2·9	71	0	57k	- 4	1	43	- 7	—	—	

Continued on next page.

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	Corr. for Focus	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	L. m.	M. m.
				m.	s.		m.	s.			
Kumagaya	+1.3	3.0	57	0	58	-3	1	45	-5	—	—
Matuyama	+1.3	3.0	257	0	59a	-2	1	47	-3	—	—
Takada	+1.3	3.0	31	1	0	-1	1	49	-1	—	—
Tokyo	+1.3	3.0	67	0	59k	-2	1	46	-4	—	—
Hatidyozima	+1.3	3.2	115	1	2k	-2	1	53	-2	—	—
Simidu	+1.2	3.3	238	1	1a	-3	1	52	-3	—	—
Hamada	+1.1	3.5	278	1	13	+7	2	4	+6	—	—
Tukubasan	+1.1	3.5	60	1	3k	-3	1	53	-5	—	—
Utunomiya	+1.1	3.5	53	1	3	-3	1	53	-5	—	—
Kakioka	+1.1	3.6	61	1	3k	-4	1	54	-6	—	—
Mito	+1.0	3.9	60	1	7k	-3	1	56	-9	—	—
Tyosi	+1.0	3.9	71	1	7	-3	1	33	-32	—	—
Ooita	+0.9	4.1	253	1	10	-1	2	6	-2	—	—
Onahama	+0.8	4.4	55	1	6	-8	2	2	-11	—	—
Simonoseki	+0.7	4.5	264	1	15	+1	2	13	0	—	—
Hokusima	+0.6	4.7	45	1	11k	-4	2	13	-2	—	—
Miyazaki	+0.6	4.8	239	1	18	+1	—	—	—	—	—
Hukuoka	+0.5	5.0	261	i1	19a	+1	i2	22	+2	—	2.5
Hukuoka B	+0.5	5.0	261	1	19	+1	i2	24	+4	—	2.4
Kumamoto	+0.5	5.0	252	1	20a	+2	2	16	-4	—	—
Yamagata	+0.5	5.0	40	1	19	+1	2	21	+1	—	—
Saga	+0.5	5.2	257	1	20	-1	2	20	-5	—	—
Unzendake	+0.4	5.3	252	1	21a	0	2	28	+3	—	—
Isinomaki	+0.4	5.6	44	1	23	-2	2	28	-5	—	—
Kagosima	+0.4	5.6	241	1	28	+3	—	—	—	—	—
Nagasaki	+0.4	5.6	254	1	27	+2	2	38	+5	—	—
Ituhara	+0.3	5.8	266	1	30	+3	2	40	+4	—	—
Husan	+0.3	6.0	278	1	31	+1	2	45	+4	—	—
Mizusawa	+0.3	6.0	39	i1	32	+2	i2	39	-2	—	—
Taikyu	+0.2	6.4	284	i1	37	+3	i2	54	+6	—	—
Tomie	+0.1	6.6	256	1	39	+4	2	56	+5	—	—
Aomori	0.0	7.2	28	1	44	+2	3	5	+1	—	—
Hatinohe	-0.1	7.3	33	2	44	+62	4	3	+59	—	—
Keizyo	-0.3	8.2	295	e1	56	+4	i3	31	+10	—	—
Nahe	-0.3	8.4	225	1	59a	+4	3	35	+9	—	—
Zinsen	-0.3	8.4	294	i1	59k	+4	i3	34	+8	—	—
Urakawa	-0.5	9.2	31	2	4	+1	3	49	+8	—	—
Vladivostok	-0.5	9.3	338	i2	6	+1	i3	52	+8	5.8	12.0
Heizyo	-0.6	9.6	302	i2	15k	+8	i4	3	+14	—	—
Obihiro	-0.7	10.0	31	2	19	+8	3	56	0	—	—
Asahigawa	-0.7	10.4	25	2	32	+15	4	16	+10	—	—
Nemuro	-1.0	11.4	37	2	34	+8	4	32	+9	—	—
Zi-ka-wei	-1.2	12.9	259	2	49	+5	5	1	+6	—	7.9
Isigakizima	-1.5	14.6	229	3	4	+1	—	—	—	—	—
Nanking	-1.6	14.8	266	i3	11	+6	6	13	+41	7.5	—
Chiufeng	-2.0	17.0	295	i3	32k	+4	6	29	+14	—	—
Taito	-2.0	17.7	232	3	40	+2	6	42	+11	—	—
Hong Kong	-2.8	22.9	245	4	32	+1	8	21	+13	10.0	11.6
Manila	-3.0	24.2	219	e4	44	+2	9	44	+74	13.3	—
Phu-Lien	-3.6	29.5	251	e5	31	+3	11	32	SSSS	—	—
Batavia	-5.5	49.3	221	i8	8k	+5	i14	44	+11	—	—
Tashkent	-5.7	52.0	299	—	—	—	i15	26	+17	—	—
Sverdlovsk	-5.8	54.1	320	e9	0	+22	i16	8	+31	26.5	—
Baku	-6.6	66.1	304	—	—	—	e18	28	+19	e36.5	—
Tiflis	-6.7	68.9	308	e10	28	+8	i19	1	+16	e29.0	—
Ksara	-7.2	79.0	304	i11	25	+3	i20	55	+12	—	—
Tinemaha	-7.2	80.4	52	e11	33	+3	—	—	—	—	—
Santa Barbara	-7.2	81.0	55	e11	35	+2	—	—	—	—	—
Haiwee	-7.2	81.1	52	e11	48	+14	—	—	—	—	—
Mount Wilson	-7.3	82.2	54	i11	42a	+2	—	—	—	—	—
Pasadena	-7.3	82.2	54	i11	41a	+1	—	—	—	—	—
Tucson	-7.5	88.1	51	e12	12	+1	—	—	—	—	—

For Notes see next page.

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NOTES TO OCT. 26d. 9h. 33m. 33s.

Additional readings :—

Mizusawa iSE = +2m.42s.

Chiufeng ipP = +4m.54s., iEZ = +5m.8s.

Tashkent e = +15m.28s., i = +17m.42s., i = +21m.27s., e = +23m.22s.

Tiflis SKSE = +20m.23s., SSEN = +23m.30s.

Ksara pP = +11m.55s., esS = +21m.43s.

Mount Wilson eZ = +14m.55s.

Oct. 26d. 10h. 2m. 37s. Epicentre 29°·2N. 131°·3E. (as on 1934 Oct. 26d.). X.

A = -·5761, B = +·6558, C = +·4879; $\delta = +1$;

D = +·751, E = +·660; G = -·322, H = +·367, K = -·873.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Hukuoka		4·4	350	0 53	-10	1 34	-19	—	—
Hukuoka B		4·4	350	1 1	-2	1 41	-12	—	—
Sumoto		6·0	30	1 28	+3	2 52	S*	—	3·3
Husan		6·2	342	e 1 31	+3	e 2 37	-1	—	—
Kobe		6·4	29	e 1 32	+1	e 3 15	S*	—	—
Taikyu	N.	7·0	343	e 1 37	-2	e 2 53	-6	—	—
Toyooka		7·0	25	1 38	-1	3 28	S*	—	—
Zi-ka-wei	Z.	8·8	285	—	—	e 3 23	-21	—	7·8
Keizyo		9·1	338	e 2 10	+1	e 3 51	0	—	—
Zinsen		9·2	335	—	—	e 4 0	+6	—	—
Nanking		11·1	288	2 30	-6	—	—	e 5·6	7·6
Vladivostok		13·9	2	e 2 57	-17	—	—	8·0	11·6
Chiufeng		16·5	315	3 37 _a	-11	—	—	—	10·3
Sverdlovsk		55·5	322	—	—	e 16 56	-20	28·4	—

Additional readings :—

Sumoto ePZ = +1m.30s., SE = +3m.7s.

Kobe eE = +1m.47s. and +3m.21s.

Chiufeng ePN = +3m.46s.

Long waves were also recorded at Hong Kong, Phu-Lien, and Tiflis.

Oct. 26d. 19h. 32m. 6s. Epicentre 0°·2S. 98°·8E. (as on 1936 June 9d.). R.1.

A = -·1530, B = +·9882, C = -·0035; $\delta = -4$;

D = +·988, E = +·153; G = +·001, H = -·003, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Medan		3·8	359	i 0 54	0	—	—	—	—
Soengi Langka		8·3	129	i 1 52	-6	i 3 56	S*	—	—
Batavia		10·0	127	i 2 14	-7	i 5 6	S*	—	—
Malabar		11·2	129	i 2 41	+4	i 4 52	+9	—	—
Colombo		20·2	291	4 44	PP	8 43	+33	10·9	12·6
Phu-Lien		22·4	20	e 4 47	-8	e 8 47	-6	10·9	13·0
Kodaikanal	E.	23·6	298	i 5 19	+13	i 9 48	SS	i 13·9	16·1
Calcutta	N.	24·9	337	5 23	+4	9 41	+2	e 12·0	22·5
Manila		26·5	55	5 30	-4	9 52	-15	—	—
Hyderabad		26·7	313	5 35	0	10 5	-5	13·9	18·2
Hong Kong		27·0	33	5 39 _a	+1	10 12	-3	12·8	15·5
Bombay		31·9	308	6 29	+7	i 11 45	+11	15·9	20·6
Agra	E.	33·9	326	e 6 43	+4	i 12 2	-2	16·1	—
Perth		35·6	155	8 1	PP	12 44	+14	17·1	21·9
Nanking		37·4	29	8 36	PP	12 44	-13	16·6	22·4
Zi-ka-wei	Z.	38·0	32	e 7 3	-12	—	—	21·7	25·9
Chiufeng		43·2	19	i 7 54 _k	-4	14 12	-12	18·5	26·9
Hukuoka B		45·0	39	e 18 4	S _c S	—	—	—	—
Husan		45·2	35	—	—	e 18 15	S _c S	—	—
Taikyu		45·3	34	—	—	e 17 12	SS	—	—
Zinsen	N.	45·6	31	—	—	e 16 41	?	e 23·0	—
Keizyo		45·8	32	e 18 19	S _c S	e 21 43	?	e 24·1	25·8
Keizyo		46·4	32	—	—	i 18 5	S _c S	23·7	—
Andijan		47·5	333	e 8 33	+1	15 29	+3	27·9	—
Frunse		48·3	336	e 8 40	+2	e 15 34	-2	23·7	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	49.3	327	e 8 48	+ 2	15 50	- 1	25.4	—
Tashkent	49.4	331	i 8 47	0	i 15 53	+ 1	e 22.7	26.4
Tchimkent	50.0	332	8 57	+ 6	16 3	+ 2	25.4	—
Adelaide	50.9	138	e 12 47	?	e 15 16	-57	—	33.3
Vladivostok	52.5	31	e 8 56	-14	e 16 28	- 7	27.6	35.4
Melbourne	56.7	137	—	—	e 17 31	- 1	27.1	40.2
Riverview	59.4	130	—	—	e 17 30	-38	e 26.6	34.0
Sydney	59.4	130	e 15 6	?	i 33 14	?	39.4	40.9
Baku	60.1	319	10 9	+ 4	18 24	+ 7	27.9	39.5
Erevan	63.7	317	e 10 34	+ 4	—	—	—	—
Tiflis	64.1	318	10 33	0	e 19 0	- 9	e 29.4	45.8
Grozny	64.2	320	e 10 34	0	—	—	36.9	—
Sverdlovsk	64.7	338	e 10 44	+ 7	i 19 22	+ 6	29.8	34.1
Ksara	67.9	306	i 11 1a	+ 3	20 7	+11	32.4	38.2
Sotchi	68.3	319	—	—	e 20 0	- 1	—	—
Helwan	70.7	302	e 11 14	- 1	20 36	+ 6	—	41.2
Theodosia	71.7	318	e 11 15	- 6	20 38	- 3	—	—
Yalta	72.4	317	e 11 21	- 4	20 46	- 4	—	—
Simferopol	72.5	318	e 11 24	- 2	e 20 50	- 1	—	—
Sebastopol	72.8	317	e 11 28	0	e 20 54	0	—	—
Moscow	74.4	330	11 38	+ 1	e 21 9	- 4	36.0	49.3
Christchurch	78.2	135	e 11 23a	-35	21 47	- 9	40.0	46.1
Pulkovo	79.5	332	12 6	+ 1	22 5	- 5	38.9	48.4
Cape Town	81.9	236	—	—	e 22 49	+13	34.8	51.8
Vienna	85.1	318	e 12 34	0	e 23 6	- 3	—	—
Zagreb	85.1	316	—	—	e 23 36	+27	—	—
Cheb	87.9	320	e 12 54?	+ 7	e 23 16	[- 3]	e 47.9	61.9
Copenhagen	88.1	326	—	—	23 36	- 2	45.9	—
Chur	89.6	317	e 12 58	+ 2	—	—	—	—
Stuttgart	89.9	319	—	—	e 35 54?	SSSS	e 49.9	—
Zurich	90.3	317	e 12 18	-41	—	—	—	—
De Bilt	92.4	323	—	—	e 24 54?	+36	e 42.9	61.7
Pasadena	131.5	42	e 19 11	[+ 2]	—	—	e 72.9	—
Mount Wilson	z. 131.6	42	i 19 14	[+ 4]	—	—	—	—
Rio de Janeiro	136.5	237	—	—	35 54?	?	—	—
Tucson	137.5	38	e 19 12	[- 6]	—	—	e 66.0	—
Philadelphia	139.9	352	—	—	e 41 2	SS	e 62.2	—
San Juan	156.5	322	e 22 49	PP?	—	—	e 76.8	—
Huancayo	166.4	205	—	—	e 31 16	{-37}	e 81.2	—

Additional readings:—

Batavia PEN = +2m.16s., iEN = +5m.19s., iN = +5m.30s., iEN = +5m.38s.
 Malabar i = +5m.56s.
 Calcutta PPN = +5m.52s., SSN = +10m.39s
 Hong Kong PP = +6m.4s., P_cP = +9m.13s., ? = +10m.24s., SS = +11m.4s.,
 S_cS? = +16m.26s.
 Bombay SSEN = +13m.16s.
 Agra SSE = +13m.53s.
 Perth PP = +8m.14s., PPP = +12m.9s., P_cS = +13m.54s., SS = +15m.4s.,
 SSS = +15m.29s.
 Chiufeng PPNZ = +9m.40s.
 Hukuoka B eS? = +27m.34s.
 Vladivostok PP = +11m.9s., eSS = +20m.24s., eSSS = +22m.0s.
 Sydney eP = +25m.24s.
 Tiflis eP_cPN = +11m.20s., ePPZ = +13m.28s., eE = +15m.6s., ePSE =
 +19m.10s., eSKSN = +20m.12s., eE = +20m.35s., eSSN = +23m.34s.
 Ksara PPP = +15m.4s., PS = +20m.38s.
 Christchurch eGN = +34m.39s.
 Cape Town eE = +24m.14s.
 Copenhagen = 24m.36s.
 Pasadena eZ = +22m.30s. = PKS - 10s.
 Mount Wilson eZ = +22m.30s. = PKS - 10s.
 Tucson eSKP = +22m.52s.
 Philadelphia eSSS = +45m.16s.
 San Juan ePPS = +37m.6s.
 Huancayo eSKS = +26m.59s., e = +29m.38s., and +33m.0s., eSS = +46m.43s.
 Long waves were also recorded at Arapuni, Wellington, Kobe, Scoresby Sund,
 and other American and European stations.

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Oct. 26d. 23h. 5m. 46s. Epicentre 71°·0N. 6°·0W. (as on 1929 June 27d.). R.1.

A = +·3238, B = -·0340, C = +·9455; $\delta = -3$;
D = -·105, E = -·995; G = +·940, H = -·099, K = -·326.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	5·3	273	i 1 12 _a	- 3	e 1 49	-26	i 2·0	—
Reykjavik	9·1	229	e 2 41	+32	3 53	+ 2	—	—
Bergen	11·5	150	i 2 38 _a	- 4	e 4 14 _?	-36	7·7	9·6
Upsala	14·7	127	i 3 21	- 4	i 6 2	- 6	e 6·6	8·1
Edinburgh	15·2	174	—	—	i 6 36	+16	—	10·6
Durham	16·3	171	—	—	7 1	+16	—	12·2
Copenhagen	17·2	143	i 3 58	+ 1	e 7 17	+11	8·2	—
Bidston	17·7	174	i 4 11	+ 8	e 7 31	+14	8·2	10·5
Rathfarnham Castle	17·7	180	i 4 34	+31	i 8 11	+54	8·9	14·7
Pulkovo	18·4	109	4 11	0	7 30	- 3	9·0	10·0
Hamburg	18·8	149	4 20	+ 4	7 53	+11	9·6	12·2
Ivigut	19·1	262	i 4 12 _k	- 8	7 50	+ 2	9·2	—
De Bilt	19·6	159	4 25	0	8 8	+10	9·2	17·0
Kew	19·7	169	i 4 32 _k	+ 6	e 8 20	+20	9·2	15·5
Uccle	20·7	161	i 4 39	+ 2	i 8 32	+12	10·2	—
Göttingen	20·8	152	i 4 39 _k	+ 1	e 8 37	+15	14·2	16·4
Jena	E. 21·6	148	e 4 44	- 2	e 8 49	+11	e 12·7	14·2
	N. 21·6	148	e 4 47	+ 1	e 8 57	+19	e 13·2	14·7
	Z. 21·6	148	e 4 45	- 1	e 8 56	+18	e 13·2	14·7
Jersey	21·9	173	i 4 56	+ 6	8 50	+ 6	10·9	14·8
Paris	22·5	165	e 4 54	- 2	9 2	+ 7	10·2	17·2
Cheb	22·6	148	e 4 54	- 3	e 9 5	+ 8	e 13·2	15·7
Prague	23·0	144	e 4 58	- 3	e 9 13	+ 8	10·2	14·2
Strasbourg	23·3	156	e 5 5	+ 1	i 9 23	+13	e 11·2	19·2
Stuttgart	23·3	154	e 5 4 _k	0	i 9 22	+12	e 11·1	16·2
Moscow	23·9	106	e 5 13	+ 4	e 9 30	+ 9	11·3	12·4
Basle	24·3	157	e 5 12	- 1	—	—	—	—
Zurich	24·6	156	e 5 14	- 2	—	—	—	—
Vienna	25·1	143	e 5 21	0	9 37	- 6	e 12·7	15·7
Chur	25·3	156	e 5 21	- 2	—	—	—	—
Lemberg	25·3	130	e 6 50	?	—	—	13·9	14·3
Graz	26·0	145	e 5 28	- 1	e 10 4	+ 6	e 13·2	15·6
Budapest	26·3	139	5 39	+ 7	e 10 34	+31	15·2	16·2
Zagreb	27·3	144	e 5 41	0	e 10 14 _?	- 6	—	14·5
Florence	28·5	153	5 17	-35	9 14	-86	—	—
Belgrade	29·2	139	e 4 50	-68	e 11 37	+46	e 16·6	—
Sverdlovsk	30·4	82	i 6 23	+14	11 28	+18	i 14·6	16·2
Tortosa	E. 30·4	170	e 6 20	+11	e 10 9	-61	e 15·2	19·3
	N. 30·4	170	e 6 12	+ 3	e 10 14	-56	e 15·2	21·5
Toledo	31·1	177	i 6 16	+ 1	11 33	+12	e 15·3	19·7
Sofia	31·8	137	e 6 25	+ 4	—	—	—	21·7
Simferopol	32·4	121	e 6 30	+ 4	12 49	+68	16·7	—
Sebastopol	32·6	123	e 6 30	+ 2	e 12 52	+67	17·6	—
Theodosia	32·7	119	e 6 31	+ 2	e 12 54	+68	20·2	—
Yalta	32·8	122	e 6 31	+ 1	e 12 54	+66	17·4	—
Almeria	34·2	175	e 6 50	+ 8	—	—	e 17·8	—
Algiers	34·5	167	e 6 44	- 1	e 12 14	0	16·7	20·2
San Fernando	34·5	180	e 6 53	+ 8	i 12 17	+ 3	16·2	—
Sotchi	35·3	115	e 6 58	+ 6	—	—	18·7	—
Platigorsk	35·8	111	e 6 58	+ 2	e 12 42	+ 9	19·2	—
Grozny	37·3	108	e 7 15	+ 6	—	—	18·7	—
Tiflis	38·5	111	e 7 20	+ 1	13 20	+ 6	17·5	25·6
East Machias	39·0	262	e 8 31	PP	e 13 15	- 6	e 20·6	—
Erevan	39·8	112	e 7 40	+10	—	—	20·2	—
Ottawa	41·2	270	7 42	0	13 50	- 4	e 18·2	—
Baku	41·3	106	e 7 52	+ 9	14 10	+14	20·2	24·2

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
College	41.6	338	e 7 46	+ 1	14 8	+ 8	e 18.7	—
Oak Ridge	42.4	265	—	—	e 14 24	+13	e 19.2	—
Ksara	43.3	126	i 8 2k	+ 3	i 14 46	+21	—	25.2
Philadelphia	45.9	267	e 8 14	- 6	e 14 57	- 6	e 20.5	—
Tchimkent	45.9	86	e 8 25	+ 5	—	—	—	—
Helwan	46.0	133	8 26	+ 5	15 4	0	—	30.2
Ann Arbor	46.6	276	—	—	e 16 8	+55	e 25.9	—
Tashkent	46.7	87	i 8 35	+ 9	i 15 16	+ 2	e 21.4	29.0
Frunse	47.0	81	e 8 39	+10	—	—	23.7	—
Sitka	47.1	326	e 8 14?	-15	e 15 14?	- 6	—	—
Madison	47.7	282	e 8 34	0	e 15 25	- 4	—	—
Andijan	48.2	85	e 8 41	+ 3	—	—	27.2	—
Chicago	48.3	280	e 8 31	- 7	e 15 29	- 8	22.5	—
Florissant	51.9	280	e 9 0	- 6	i 16 22	- 5	e 20.2	—
St. Louis	52.0	280	i 9 6	0	e 15 46	-42	e 25.1	26.4
Columbia	53.2	269	—	—	e 16 39	- 6	e 23.7	—
Little Rock	56.2	280	e 9 32	- 5	e 16 22	-63	e 26.8	33.0
Chiufeng	61.6	48	e 10 17a	+ 1	18 41	+ 4	25.3	34.3
Tinemaha	N. 61.8	303	e 10 12	- 5	—	—	—	—
Vladivostok	62.0	34	e 10 30	+12	—	—	35.8	—
Agra	E. 62.5	85	—	—	i 18 51	+ 3	—	—
Haiwee	62.7	303	e 10 17	- 6	—	—	—	—
San Juan	63.1	248	e 10 2	-24	e 18 50	- 6	e 29.3	—
Tucson	64.3	296	10 26a	- 8	e 19 6	- 5	e 31.7	—
Mount Wilson	Z. 64.5	302	i 10 28	- 7	—	—	—	—
Riverside	Z. 64.5	302	i 10 38	+ 3	—	—	—	—
Pasadena	64.6	302	e 10 27	- 9	—	—	i 26.5	—
Santa Barbara	64.7	303	e 10 30	- 7	—	—	—	—
La Jolla	N. 65.5	301	e 10 31	-11	—	—	—	—
Bombay	68.5	94	e 11 14?	+13	e 20 14?	+11	—	—
Nanking	69.9	48	—	—	e 20 37	+17	i 35.3	—
Calcutta	N. 70.1	78	e 11 20	+ 9	e 20 30	+ 8	—	67.1
Manila	87.2	50	23 29	S	(23 29)	0	—	—
Huancayo	94.9	246	—	—	e 23 53	[- 7]	—	—
La Paz	Z. 97.0	239	e 17 15	PP	—	—	50.2	62.9

Additional readings :—

Edinburgh i = +8m.28s. and +8m.40s.
 Copenhagen eSN = +7m.25s.
 Bidston iPP = +4m.43s.
 Rathfarnham Castle i = +4m.56s.
 Hamburg iN = +8m.35s.
 Ivigtut +7m.57s.
 Kew iPPNZ = +4m.50s., eN = +8m.10s.
 Uccle iN = +4m.45s.
 Göttingen iPEN = +4m.47s., iSN = +8m.43s.
 Jena iPN = +4m.53s., iPZ = +4m.58s., iPN = +5m.1s., eN = +5m.57s.
 Jersey i? = +5m.20s.
 Strasbourg iZ = +5m.11s., iPPZ = +5m.27s., iPPP = +5m.41s., iSS = +10m.7s.
 Stuttgart iPNZ = +5m.8s., eE = iNZ = +5m.25s. = PP - 2s., i = +9m.51s. = SS + 1s.
 Basle i = +5m.22s.
 Vienna PcP = +9m.5s.
 Budapest iE = +6m.7s., iN = +6m.11s. and +6m.15s., eE = +6m.17s., eN = +6m.41s.
 Zagreb e = +5m.49s.
 Belgrade eZ = +5m.35s.
 Toledo i = +6m.19s.
 Tiflis PNZ = +7m.25s., ePP = +8m.48s., eZ = +10m.34s., iSSE = +15m.20s.
 East Machias e = +13m.18s., eSS = +16m.2s.
 Ottawa PPP = +9m.20s., SSS = +16m.38s.
 College PcP = +9m.25s., eSS = +16m.38s.
 Ksara SS = +17m.50s.
 Philadelphia iS = +15m.0s., eSS = +18m.2s., eS₀S = +18m.20s., iSSS = +20m.12s.
 Ann Arbor e?EN = +21m.38s.
 Chicago e = +17m.49s., eSS = +19m.8s.
 Florissant iEN = +9m.6s.

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St. Louis ipPN = +9m.12s., ePPPN = +11m.22s., eE = +16m.11s.
 Columbia eSS = +20m.17s.
 Little Rock ipPEN = +9m.37s., iN = +10m.17s., eE = +10m.28s., ePPPEN = +11m.34s., eN = +16m.2s.
 Chiufeng ipNZ = +10m.22s., SSN = +22m.48s.
 Tinemaha eN = +11m.53s.
 Agra iE = +25m.41s.
 San Juan eSSS = +26m.16s.
 Tucson eSS = +23m.16s., eSSS = +25m.44s., e = +29m.44s.
 Mount Wilson iZ = +12m.42s. = PP - 8s.
 Pasadena eZ = +12m.44s. = PP - 7s.
 Nanking iN = +24m.46s., eN = +28m.20s.
 Manila SEN = +25m.29s.
 Huancayo e = +38m.44s.
 Long waves were also recorded at Stonyhurst, Bagnères, Barcelona, Granada, Seattle, Ukiah, Rio de Janeiro, Cape Town, Phu-Lien, Hong Kong, and Kodaikanal.

Oct. 26d. Readings also at 3h. (Jersey, Sumoto, and near Kobe), 5h. (near Misusawa), 9h. (Chiufeng, Nanking, Hong Kong, Keizyo, Taikyu, Zinsen, near Hukuoka, and Hukuoka B), 12h. (Berkeley, Branner, Fresno, Lick, and San Francisco), 13h. (Ksara, Tifis, and near Erevan), 16h. (Andijan, Wellington, and near Malabar), 18h. (Arapuni), 20h. (Sotchi).

Oct. 27d. Readings at 0h. (near San Javier), 3h. (near Mizusawa), 4h. (Medan), 5h. (Mizusawa), 7h. (Graz), 11h. (Medan), 12h. (near Tifis), 13h. (near Amboina) 15h. (near Medan), 16h. (Hastings, near Bunnythorp, Wellington, and near Nagoya), 17h. (near Balboa Heights), 18h. (Sumoto and near Andijan), 22h. (near Berkeley and Branner).

Oct. 28d. Readings at 1h. (Tifis), 3h. (Medan and Ksara), 5h. (near Nagoya), 9h. (near Santiago), 11h. (Mount Wilson and Pasadena), 12h. (Hastings), 13h. (Nanking), 16h. (Tifis), 18h. (Wellington), 22h. (Mount Wilson, Pasadena, and near Algiers).

Oct. 29d. 5h. 53m. 7s. Epicentre 7°·5N. 82°·3W. (as on 1933 June 8d.). R.2.

$$A = +.1328, B = -.9825, C = +.1305; \quad \delta = -3;$$

$$D = -.991, E = -.134; \quad G = +.017, H = -.129, K = -.991.$$

	Δ	Fz.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.	m.
Balboa Heights	3.1	62	i 0	46	+ 2	i 1	27	+ 7	—	1.6
San Juan	19.1	54	i 4	21	+ 1	7	53	+ 5	—	—
Tacubaya	N. 20.3	308	4	33	0	8	42	+30	—	—
Huancayo	20.7	160	i 4	29 _a	- 8	8	2	-18	—	—
Columbia	26.5	3	e 9	6	P _c P	e 9	58	- 9	e 12.6	—
La Paz	z. 27.8	150	i 5	39	- 6	i 10	9	-19	11.9	17.6
Little Rock	28.8	17	i 5	20	-34	e 9	59	-46	e 12.9	—
St. Louis	31.9	349	i 6	23	+ 1	i 11	35	+ 1	—	—
Florissant	32.1	349	i 6	26	+ 2	i 11	39	+ 2	e 14.9	—
Philadelphia	33.1	11	i 6	35	+ 2	i 12	0	+ 8	i 15.9	—
Chicago	34.6	353	—	—	—	e 12	9	- 6	—	—
Ann Arbor	34.8	358	—	—	—	i 12	29	+11	e 18.6	19.6
Madison	36.1	351	e 6	58	- 1	e 12	40	+ 2	—	—
Tucson	36.3	318	i 7	2 _a	+ 2	i 12	55	+14	i 18.6	—
Oak Ridge	36.3	13	i 7	3	+ 3	—	—	—	e 13.9	—
Vermont	37.8	12	—	—	—	e 13	6	+ 3	—	—
Ottawa	38.3	8	e 7	23	+ 5	e 13	15	+ 4	e 15.9	—
East Machias	39.5	17	e 9	6	PP	e 13	38	+ 9	e 21.9	—
La Jolla	41.1	314	i 7	34	- 7	—	—	—	—	—
Riverside	41.8	316	e 7	49	+ 2	—	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Mount Wilson	42.4	315	i 7 53 _a	+ 1	—	—	—	—
Pasadena	42.4	316	i 7 54 _a	+ 2	i 14 32	+21	e 22.0	—
Haiwee	43.4	317	e 8 1	+ 1	—	—	—	—
Santa Barbara z.	43.7	314	e 8 3	+ 1	—	—	—	—
Bozeman	45.5	333	—	—	e 15 0	+ 3	e 25.4	—
Branner	46.5	316	e 8 28	+ 3	—	—	—	—
Butte	46.6	332	e 8 23	- 2	e 15 3	-10	e 28.0	—
Berkeley	47.2	317	e 8 30	0	e 15 33	+12	—	—
La Plata	48.3	153	8 35	- 3	15 35	- 2	25.9	—
Ukiah	48.4	318	e 9 53	+74	e 15 53	+15	—	—
Rio de Janeiro E.	48.8	129	e 9 18	+36	i 16 5	+21	i 19.4	—
N.	48.8	129	e 9 21	+39	i 16 11	+27	i 19.4	—
College	73.0	337	—	—	e 20 53	- 4	—	—
San Fernando	74.4	54	—	—	23 41	SS	34.9	—
Granada	76.5	53	e 12 3	+14	—	—	—	—
Edinburgh	77.7	35	—	—	e 22 27	+36	—	—
Jersey	77.9	41	—	—	i 22 17	+24	38.3	—
Kew	79.2	39	—	—	e 22 5	- 2	e 33.9	40.1
Paris	81.0	40	—	—	e 22 53?	+27	37.9	41.9
Uccle	82.1	39	e 12 40	+21	e 22 37	- 1	e 33.9	—
De Bilt	82.5	38	i 12 31	+10	e 22 49	+ 7	e 33.9	47.2
Strasbourg	84.4	40	e 12 38	+ 8	e 23 0	- 2	e 28.9	—
Zurich	85.1	43	e 12 42	+ 8	—	—	—	—
Stuttgart	85.3	40	e 12 35	0	e 23 3	[+ 2]	e 39.9	48.9
Chur	85.8	43	e 12 36	- 1	—	—	—	—
Copenhagen	86.5	34	—	—	23 23	+ 1	36.9	—
Cheb	87.2	39	e 12 53?	+ 9	e 23 15	[0]	e 41.9	44.9
Upsala	88.5	30	e 20 53?	PPPP	—	—	e 40.9	—
Pulkovo	94.5	28	e 13 38	+20	e 24 25	-13	42.9	49.3
Christchurch	106.1	227	e 27 49	PS	e 32 13	SS	e 49.2	—
Ksara	108.5	51	e 14 15	- 9	e 25 43	{-14}	—	—
Sverdlovsk	109.1	20	—	—	e 26 28	{+27}	44.9	62.5
Baku	115.0	38	e 19 18	PP	e 29 25	SKSP	e 47.9	63.1
Tashkent	124.7	25	—	—	e 26 49	[+45]	e 54.7	73.1
Nanking	135.6	334	e 23 17	PKS	—	—	e 65.1	78.1

Additional readings :—

San Juan iPP = +4m.34s., iPPP = +5m.18s., i = +5m.43s., SS = +8m.5s.

Huancayo iP = +4m.33s., i = +7m.42s., iSS = +8m.19s.

Columbia e = +10m.14s., eSSS = +11m.59s.

La Paz iSN = +10m.18s.

Little Rock iPPEN = +5m.57s., eN = +6m.6s., eN = +10m.37s.

St. Louis ePPEN = +7m.12s., iEN = +7m.25s., iN = +11m.59s.

Florissant ePPN = +7m.17s., iNZ = +7m.30s., iPPPZ = +7m.38s., eP_cPNZ = +9m.21s., eN = +12m.32s., iGN = +13m.1s., iSSN = +13m.27s.

Philadelphia iSS = +14m.10s., i = +14m.37s.

Tucson i = +8m.34s., e = +15m.35s.

Chicago eSS = +14m.47s.

Vermont eSS = +15m.36s.

East Machias eSS = +16m.25s., e = +16m.59s., eSSS = +17m.55s.

La Jolla eZ = +9m.24s.

Mount Wilson eZ = +8m.33s.

Pasadena iZ = +8m.36s., iNZ = +9m.35s.

Santa Barbara eZ = +9m.53s.

Branner eE = +9m.40s., eE = +10m.31s., eN = +10m.40s. = PPP - 5s.

Butte e = +13m.30s., S? = +15m.16s., eSS = +18m.27s.

Ukiah e = +13m.59s.

College e = +19m.59s., eSSS = +28m.59s.

Jersey i? = +23m.26s.

Stuttgart ePP = +16m.1s.

Ksara ePS = +27m.45s., PPS = +28m.31s.

Sverdlovsk e = +34m.12s. = SS + 6s.

Tashkent e = +33m.52s., +33m.55s., +36m.20s., +39m.41s., and +45m.41s.

Long waves were also recorded at Honolulu, Cape Town, Santiago, Sitka, Scoresby

Sund, Hamburg, Stonyhurst, Tiflis, and Vladivostok.

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Oct. 29d. 18h. 38m. 52s. Epicentre 13°·7N. 145°·8E. (as on 1931 Oct. 30d.). R.1.

$$A = -.8035, B = +.5461, C = +.2368; \delta = -9;$$

$$D = +.562, E = +.827; G = -.196, H = +.133, K = -.972.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Titizima	13·8	346	3 17	+ 4	—	—	—	—
Hatidyozima	20·1	346	4 31	0	8 26	SS	—	—
Naha	21·1	308	4 42	+ 1	8 41	+13	—	—
Nake	21·1	317	4 39	- 2	8 48	SS	—	—
Siomisaki	21·8	337	4 48 ^a	- 1	8 54	+12	—	—
Mera	21·9	347	4 54	+ 4	8 50	+ 6	—	—
Katuura	22·0	347	4 18	-33	—	—	—	—
Ito	22·1	349	4 53	+ 1	—	—	—	—
Muroto	22·2	334	4 51	- 2	9 1	+11	—	—
Okayama	22·2	337	5 8	+15	9 21	SS	—	—
Simidu	22·2	331	4 53	0	9 3	+13	—	—
Hamamatu	22·3	343	4 48	- 6	8 56	+ 4	—	—
Misima	22·3	345	4 53	- 1	—	—	—	—
Numadu	22·3	346	5 0	+ 6	—	—	—	—
Yokosuka	22·3	347	4 45	- 9	—	—	—	—
Yokohama	22·4	347	4 55	0	9 3	+10	—	—
Miyazaki	22·5	327	4 54 ^a	- 2	9 3	+ 8	—	—
Tyosi	22·5	350	5 2	+ 6	9 4	+ 9	—	—
Tokyo	22·6	347	4 55	- 2	—	—	—	—
Tu	22·6	340	5 4	+ 7	9 15	+18	—	—
Hunatu	22·7	346	4 59	+ 1	9 9	+10	—	—
Kagosima	22·7	324	4 58	0	—	—	—	—
Koti	22·7	333	4 58	0	—	—	—	—
Wakayama	22·7	337	4 56	- 2	9 3	+ 4	—	—
Yagi	22·7	388	4 55	- 3	—	—	—	—
Kameyama	22·8	340	4 57	- 2	—	—	—	—
Tokusima	22·8	336	5 1	+ 2	9 9	+ 8	—	—
Kohu	22·9	346	5 4	+ 4	9 25	+22	—	—
Nagoya	22·9	341	e 5 1	+ 1	e 9 11	+ 8	—	—
Osaka	22·9	338	4 57	- 3	9 18	+15	—	—
Osaka B	22·9	338	4 57	- 3	—	—	—	—
Sumoto	22·9	336	4 58	- 2	9 10	+ 7	e 11·9	15·1
Iida	23·0	345	5 3	+ 2	—	—	—	—
Isigakizima	23·0	302	4 59	- 2	—	—	—	—
Kobe	23·1	337	4 55	- 7	9 9	+ 2	16·2	—
Tukubasan	23·1	349	5 4 ^a	+ 2	9 16	+ 9	—	—
Gihu	23·2	341	5 4	+ 1	9 7	- 1	—	—
Hikone	23·2	340	5 7	+ 4	—	—	—	—
Kumagaya	23·2	348	5 3	0	9 30	+22	—	—
Kyoto	23·2	340	5 7	+ 4	9 24	+16	—	—
Mito	23·2	349	5 5	+ 2	9 11	+ 3	—	—
Matuyama	23·3	334	5 3	- 1	—	—	—	—
Tadotu	23·3	337	5 2 ^a	- 2	—	—	—	—
Ooita	23·4	328	5 18	+13	9 47	+35	—	—
Maebasi	23·5	348	5 8	+ 3	9 33	+19	—	—
Kumamoto	23·6	328	5 4	- 2	—	—	—	—
Matumoto	23·6	343	5 22	+16	9 42	+26	—	—
Oiwake	23·6	345	5 8	+ 2	9 14	- 2	—	—
Unzendake	23·8	326	5 9	+ 1	9 29	+10	—	—
Nagasaki	23·9	326	5 8	- 1	9 26	+ 5	—	—
Nagano	24·0	346	5 9	- 1	9 39	+16	—	—
Toyooka	24·0	339	5 10	0	9 28	+ 5	—	15·5
Manila	24·1	275	5 8 ^k	- 3	9 28	+ 3	—	—
Saga	24·1	327	5 14	+ 3	9 47	+22	—	—
Toyama	24·2	344	5 20	+ 8	9 39	+12	—	—
Hukuoka	24·3	328	5 14 ^k	+ 1	9 30	+ 2	—	—
Hukuoka B	24·3	328	5 14	+ 1	9 33	+ 5	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Kanazawa	24.3	343	5 11	- 2	9 37	+ 9	—	—
Aidu	24.4	350	6 7	+53	10 34	+64	—	—
Takada	24.4	346	5 22	+ 8	9 40	+10	—	—
Hukusima	24.5	350	5 17	+ 2	—	—	—	—
Tomie	24.5	324	5 17	+ 2	9 23	- 9	—	—
Hamada	24.6	333	5 13	- 3	—	—	—	—
Sakai	24.6	338	5 17	+ 1	—	—	—	—
Sendai	24.9	352	5 22	+ 3	9 53	+14	—	—
Niigata	25.0	348	5 31	+11	—	—	—	—
Wazima	25.0	344	5 19	- 1	9 50	+ 9	—	—
Yamagata	25.0	352	5 30	+10	—	—	—	—
Isinomaki	25.1	352	6 25	+64	—	—	—	—
Karenko	25.1	299	5 17	- 4	—	—	—	—
Taito	25.1	295	5 14	- 7	—	—	—	—
Giran	25.2	301	5 36	+14	10 4	+20	—	—
Kosyun	25.2	294	5 18	- 4	9 41	- 3	—	—
Taihoku	25.5	301	5 22	- 3	9 57	+ 7	—	—
Arisan	25.6	297	5 24	- 1	—	—	—	—
Mizusawa	E. 25.8	353	e 5 32	+ 5	e 9 58	+ 3	—	—
	N. 25.8	353	e 5 28	+ 1	e 9 51	- 4	—	—
Taityu	25.9	298	5 27	- 1	—	—	—	—
Tainan	26.0	295	5 25	- 4	—	—	—	—
Husan	26.2	328	5 32	+ 1	10 8	+ 6	—	—
Morioka	26.3	353	5 38	+ 6	10 17	+14	—	—
Akita	26.5	350	5 33	- 1	—	—	—	—
Taikyu	27.0	329	5 31	- 7	e 9 1	-74	e 17.3	—
Zi-ka-wei	z. 28.4	312	e 5 42	- 9	9 42	-56	12.2	24.9
Hakodate	29.1	352	6 18	+21	—	—	—	—
Keizyo	29.2	329	e 5 53	- 5	e 12 24	SSSS	e 20.6	—
Zinsen	29.3	328	e 5 57	- 2	e 10 48	- 5	—	—
Sapporo	29.6	354	7 47	?	12 46	?	—	—
Nanking	30.8	311	i 6 9	- 3	11 12	- 5	14.1	19.9
Hong Kong	31.2	291	6 16k	0	11 18	- 5	15.2	18.6
Vladivostok	31.8	341	i 6 25	+ 4	e 11 31	- 1	13.6	19.3
Chiufeng	37.0	322	e 6 56k	-10	i 12 45	- 6	15.7	23.6
Phu-Lien	38.0	287	i 7 15	0	e 13 4	- 2	18.1	21.5
Batavia	z. 43.5	246	i 7 55	- 6	—	—	—	—
Medan	47.6	263	e 8 36	+ 3	—	—	—	—
Sydney	47.6	174	i 15 26	S	(i 15 26)	- 1	23.1	24.1
Riverview	47.6	174	e 8 40	+ 7	i 15 39	+12	e 21.3	27.0
Adelaide	49.1	188	i 8 43	- 1	i 15 49	+ 1	22.4	26.7
Apia	50.2	121	e 9 14	+21	16 36	+32	—	—
Melbourne	51.5	181	e 9 31	+28	16 22	0	23.5	29.1
Perth	53.9	211	9 28	+ 7	16 53	- 1	25.4	35.1
Honolulu	54.0	73	e 9 38	+17	16 33	-23	24.4	—
Calcutta	N. 55.0	281	9 33	+ 4	17 8	- 1	—	33.6
Arapuni	58.9	153	—	—	18 14	+13	i 25.8	29.1
Wellington	61.2	156	10 16	+ 3	18 43	+11	31.1	37.1
Christchurch	62.3	159	i 10 23k	+ 8	e 18 45	- 1	—	—
Semipalatinsk	64.0	320	10 30	- 2	19 6	- 1	—	—
Agra	E. 64.2	294	i 10 31	- 3	i 18 57	-13	—	—
Hyderabad	64.7	283	10 39	+ 2	19 15	- 1	28.9	41.1
Colombo	65.0	271	10 50	+11	19 42	+22	31.7	38.5
Kodaikanal	E. 66.7	276	e 10 45	- 5	19 22	-19	31.0	—
Frunse	67.0	311	10 48	- 4	—	—	34.6	—
College	67.7	25	—	—	e 20 15	+22	e 31.4	—
Andijan	68.6	309	11 6	+ 4	e 21 8	+64	36.1	—
Bombay	69.8	285	e 11 8	- 1	20 10	- 9	—	41.5
Tohimkent	70.7	311	11 25	+10	—	—	—	—
Tashkent	71.0	310	11 18	+ 2	i 20 23	-10	e 30.0	41.8

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sitka	72.5	34	(e 15 8?)	PP	—	—	e 15.1	—
Samarkand	72.8	308	e 11 27	- 1	e 20 59	+ 5	—	—
Sverdlovsk	75.9	326	i 11 36	+11	i 21 39	+ 9	44.7	44.9
Seattle	81.2	43	—	—	e 22 4	-24	e 34.5	—
Ukiah	82.2	52	e 12 27	+ 8	e 22 44	+ 5	—	—
Berkeley	83.1	53	e 12 26	+ 2	—	—	—	—
Branner	83.3	53	e 12 26	+ 1	22 59	+ 9	—	—
Baku	85.6	311	12 39	+ 3	i 23 4	[+ 1]	41.1	47.4
Fresno	85.9	54	e 12 28	-10	—	—	—	—
Haiwee	86.9	53	e 12 45	+ 2	e 23 24	- 2	—	—
Pasadena	87.2	55	i 12 46 _a	+ 2	e 23 27	- 2	e 36.2	—
Mount Wilson	87.3	55	i 12 47 _a	+ 2	—	—	—	—
Grozny	87.8	314	e 13 8	+21	—	—	44.1	—
Riverside	87.9	55	e 12 49	+ 2	e 23 38	+ 2	—	—
Butte	88.0	43	e 12 55	+ 7	e 23 12	[- 8]	e 40.3	—
La Jolla	88.3	57	i 12 51	+ 2	—	—	—	—
Moscow	88.6	327	12 51	0	23 15	[- 9]	45.1	53.7
Tiflis	88.9	313	e 12 52	0	23 18	[- 8]	45.6	57.7
Bozeman	89.1	43	—	—	23 8	[-19]	e 39.3	—
Pulkovo	90.3	333	e 12 58	- 1	23 31	[- 3]	46.1	54.7
Tucson	93.7	56	13 17 _a	+ 3	e 24 16	-14	42.6	—
Theodosia	94.1	318	e 16 19	PP	e 24 34	0	46.1	—
Simferopol	95.0	318	e 16 30	PP	e 24 41	- 1	51.1	—
Scoresby Sund	95.4	356	19 8?	PPP	—	—	45.1	—
Sebastopol	95.5	318	e 16 43	PP	24 48	+ 1	57.1	—
Upsala	95.6	336	—	—	e 24 8?	[+ 4]	e 42.1	53.2
Yalta	95.7	318	e 16 8	PP	e 24 23	{+ 2}	50.1	—
Ksara	98.2	306	e 13 30	- 5	e 24 4	[-13]	—	—
Copenhagen	100.4	335	18 6	PP	25 9	-21	45.1	—
Budapest	102.6	326	e 18 14	PP	—	—	e 52.1	62.1
Sofia	102.9	320	e 18 20	PP	—	—	—	55.1
Prague	103.3	330	e 18 44	PP	e 24 8?	[-34]	e 50.1	56.1
Belgrade	103.4	323	—	—	e 34 12	SS	e 58.1	—
Hamburg	103.4	335	i 18 24	PP	—	—	e 51.1	59.1
Helwan	103.4	306	e 12 53	-66	24 33	[- 9]	—	—
Vienna	103.6	327	e 17 18	PP	e 24 59	[+16]	e 54.6	—
Jena	104.1	331	e 18 8	PP	e 25 41	-21	51.1	65.6
Madison	104.1	38	—	—	e 26 8?	+ 6	—	—
Chur	104.3	331	e 15 23	+80	e 24 20	—	e 52.1	68.6
Göttingen	104.4	333	—	—	i 25 41	{+15}	—	61.6
Graz	104.8	327	—	—	e 26 44	+35	e 54.1	65.8
Zagreb	105.3	326	e 17 20	[-42]	e 24 38	[-13]	e 51.1	—
Edinburgh	105.7	342	—	—	i 29 28	?	e 53.1	—
Florissant	105.9	42	e 12 32	?	e 20 2	?	e 49.1	60.1
De Bilt	105.9	335	e 18 45	PP	e 33 43	SS	e 48.1	69.5
Chicago	105.9	38	e 15 14	+63	—	—	—	—
St. Louis	106.0	42	(e 18 43)	PP	i 25 4	[+ 9]	e 50.1	—
Stuttgart	106.7	332	e 14 44	+29	e 25 48	{+ 5}	e 52.1	69.7
Stonyhurst	107.2	341	—	—	e 26 8	{+21}	e 48.1	58.1
Uccle	107.3	336	e 18 43	PP	33 52	SS	e 48.1	—
Strasbourg	107.5	332	e 18 31	PP	—	—	e 51.1	—
Bidston	107.8	341	—	—	e 26 33	{+42}	e 48.1	61.5
Kew	108.5	338	i 18 38 _k	PP	e 26 34	{+38}	e 52.1	63.0
Florence	109.2	326	19 8	PP	—	—	—	29.1
Toronto	109.4	32	e 14 29	+ 1	—	—	52.1	—
Paris	109.6	335	e 18 51	PP	e 29 8?	?	51.1	58.1
Ottawa	110.0	29	e 19 8?	PP	e 25 8?	[- 5]	e 47.1	—
Jersey	111.0	338	—	—	i 43 58	?	57.8	—
Vermont	111.9	28	—	—	e 24 31	[-51]	e 47.8	—
Oak Ridge	114.2	28	e 19 39	PP	—	—	e 54.1	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Philadelphia	114.2	32	e 18 49	[+18]	e 25 18	[-13]	e 51.4	—
Columbia	114.7	41	29 18	PS	—	SS	e 53.2	—
Toledo	119.5	333	e 18 52	[+ 8]	—	—	e 57.7	69.8
Granada	121.5	332	20 27	PP	—	—	e 66.1	—
San Fernando	123.3	333	e 21 51	?	e 28 25	?	62.1	—
Cape Town	128.4	238	e 22 40	?	i 38 42	SS	e 60.9	74.7
San Juan	135.1	45	e 20 2	[+47]	26 8	[-25]	e 62.5	—
Huancayo	139.0	92	e 19 33	[+13]	e 29 1	{-17}	e 64.4	—
La Paz	147.1	101	i 19 53	[+16]	30 20	{+14}	72.3	86.6
La Plata	148.9	138	19 56	[+16]	—	—	42.5?	—
Rio de Janeiro	167.5	138	e 21 40	{+22}	—	—	e 46.5	—

Additional readings :—

Osaka PP = +5m.39s.
Sumoto SN = +9m.13s., SZ = +9m.16s.
Kobe ePEZ = +4m.58s., iPZ = +5m.4s., iPEN = +5m.5s., iE = +6m.11s., SN = +9m.13s., iE = +10m.8s.
Toyooka SN = +9m.30s.
Zi-ka-wei PPZ = +6m.10s., SSZ = +10m.30s., SSSZ = +10m.42s.
Keizyo eSSE = +15m.45s.
Nanking iPN = +6m.14s., PP = +7m.6s., PPP = +7m.34s., SSE = +12m.26s., SSN = +12m.34s.
Hong Kong PP = +7m.11s., P_cP = +9m.28s., SS = +12m.59s., SSS = +13m.58s., S_cS = +16m.29s.
Vladivostok PP = +7m.35s., PPPP = +8m.20s.
Chiufeng iP = +7m.6s., PPEN = +8m.24s., S = +12m.49s.
Phu-Lien e = +8m.49s. = PPP - 3s.
Sydney e = +12m.53s., iS = +20m.38s.
Riverview iSN = +15m.43s.
Adelaide i = +9m.57s. and +10m.42s., e = +17m.53s., i = +19m.31s. and +24m.40s.
Apia ePP = +10m.28s., ePP = +11m.20s.
Perth P_cP = +10m.38s., PP = +11m.33s., PPP = +12m.28s., PS = +17m.8s., SS = +20m.33s., SSS = +22m.8s.
Honolulu ePPP = +12m.42s., SSS = +22m.45s., e = +24m.3s.
Calcutta PPN = +11m.18s.
Wellington PP = +12m.46s., SS = +22m.58s., SSS = +24m.29s., L_q = +28.4m.
Christchurch iPNE = +10m.25s., iP = +11m.33s., i = +13m.40s., iSEN = +18m.54s., iSSN? = +21m.5s.
Agra PSE = +19m.21s., SSE = +23m.6s.
Kodaikanal PPE = +13m.8s.
College ePS = +20m.37s., eSS = +24m.8s., eSSS = +27m.21s.
Bombay PPE = +13m.19s., S_cSEN = +21m.1s., SSEN = +24m.24s.
Sverdlovsk L_q = +36.5m.
Seattle eS = +22m.26s.
Ukiah e = +22m.23s., e = +23m.16s., e = +34m.32s.
Berkeley eENZ = +12m.32s.
Branner ePN = +12m.27s., iE = +12m.46s., iE = +13m.0s., eE = +13m.22s., eE = +13m.31s., iE = +14m.3s., eE = +23m.17s., eN = +23m.26s., eE = +23m.36s., eN = +24m.35s.
Pasadena iN = +24m.23s. = PS + 5s.
Butte e = +22m.15s., ePS = +24m.23s.
Moscow PP = +16m.49s., PPP = +18m.14s., eS = +23m.39s., SS = +29m.44s.
Tifis eEZ = +14m.17s., PPZ = +16m.28s., SSE = +28m.57s.
Bozeman eSKS = +23m.8s.
Pulkovo SS = +29m.44s.
Tucson e = +13m.21s., e = +24m.23s., ePS = +25m.41s., e = +26m.0s., eSS = +31m.2s., eSSS = +34m.44s.
Upsala iPS = +26m.3s.
Ksara iPP = +17m.38s., eSKKS = +24m.56s., ePS = +26m.44s.
Copenhagen +24m.4s., PS = +26m.38s., SS = +32m.14s.
Budapest eE = +18m.38s., e = +27m.14s. = PS + 1s.
Prague eN = +27m.8s.?
Belgrade eZ = +40m.15s.
Helwan SKS = +23m.13s.
Vienna eEN = +27m.18s.
Jena eN = +26m.53s.
Florissant eSKSNZ = +18m.44s., eNZ = +18m.52s.
Edinburgh i = +33m.36s.
St. Louis eEN = +25m.38s., eN = +29m.8s., +34m.15s. and +34m.49s.; PP is given as eSKS.
Stuttgart ePKP = +18m.32s., ePP = +19m.0s., eZ = +27m.49s. = PS + 1s.
Uccle PSN = +28m.1s.

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Strasbourg ePPPZ? = +21m.24s., ePSN = +28m.2s., ePPSN = +29m.5s., eZ = +29m.42s.
 Bidston e = +34m.17s. and +39m.52s.
 Kew ePPSEZ = +29m.25s., eSSEN = +34m.27s., eSSSE = +38m.14s., eN = +39m.55s.
 Toronto PP = +19m.8s., PS = +28m.23s.
 Ottawa e = +35m.8s.?
 Jersey i? = +49m.38s.
 Vermont eS = +27m.51s., ePS = +29m.11s., ePPS = +30m.11s., eSS = +36m.51s., eSSS = +39m.41s.
 Oak Ridge eZ = +20m.9s., ePSN = +29m.27s., ePPSNZ = +30m.11s., eN = +33s.29s., eSS = +35m.31s., e = +38m.25s.
 Philadelphia ePPP = +22m.19s., e = +28m.19s., iPS = +29m.20s., e = +30m.42s., eSS = +35m.35s., eSSS = +40m.14s.
 Columbia e = +29m.32s., ePPS = +30m.25s., eSS = +35m.46s.
 Toledo PS = +30m.19s.
 San Fernando eSS = +37m.29s.
 Cape Town iP?E = +24m.25s., iN = +38m.52s.
 San Juan e = +20m.14s., ePP = +21m.59s., e = +22m.23s., eSKP = +22m.47s., SKP = +23m.0s., ePPP = +24m.42s.
 Huancayo ePP = +21m.55s., eSKP = +22m.33s., ePPS = +24m.58s., e = +37m.58s., eSS = +40m.59s., eSSS = +46m.47s., e = +51m.50s.
 La Paz iPKP₂ = +20m.39s., PPN = +24m.37s., SSN = +42m.22s.
 Long waves were also recorded at Ivigtut, Rathfarnham Castle, Durham, Jersey, Bergen, Tortosa, East Machias, Ann Arbor, Little Rock, and Stonyhurst.

Oct. 29d. Readings also at 5h. (Florissant, St. Louis, Fresno, and near Balboa Heights), 6h. (Weston), 8h. (near Balboa Heights), 13h. (Sumoto and near Medan), 16h. (near Mizusawa), 19h. (near Huancayo), 22h. (Tucson, Frunse, Mount Wilson (3), Pasadena (3), Branner, near Fresno, and near Semipalatinsk).

Oct. 30d. 6h. 2m. 16s. Epicentre 39°·3N. 76°·1E. (as on 1935 July 14d.). X.

$$A = +.1859, B = +.7512, C = +.6334; \quad \delta = +6;$$

$$D = +.971, E = -.240; \quad G = +.152, H = +.615, K = -.774.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Andijan	3.2	294	e 0 45	- 1	e 1 44	S _g	2.1
Frunse	3.8	341	e 1 12	P _g	e 2 19	S _g	—
Tashkent	5.5	290	e 2 3	?	e 2 24	+ 4	3.7
Samarkand	7.0	270	1 40	+ 1	3 8	+ 9	3.4

Additional readings:—

Andijan i = +1m.37s.
 Tashkent e = +3m.0s., S = +3m.25s.
 Samarkand e = +2m.10s. and +2m.42s.

Oct. 30d. 12h. 12m.13s. Epicentre 34°·0N. 133°·9E. (as on 1934 Jan. 8d.). X.

$$A = -.5749, B = +.5974, C = +.5592; \quad \delta = +10;$$

$$D = +.721, E = +.693; \quad G = -.388, H = +.403, K = -.829.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.9	67	i 0 11 _a	- 2	i 0 20	- 3	0.3
Kobe	1.2	57	0 19 _k	+ 2	0 28	- 3	0.6
Toyooka	1.7	26	e 0 24	0	0 44	0	0.8
Nagoya	2.7	67	e 0 40	+ 1	1 8	- 1	—

Toyooka gives also PN = +28s., PZ = +32s., iZ = +37s.

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Oct. 30d. 17h. 14m. 25s. Epicentre $13^{\circ}7'N$. $145^{\circ}8'E$. (as on 1936 Oct. 29d.). R.3.

$$A = -.8035, B = +.5461, C = +.2368; \quad \delta = -9.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Nagoya	22.9	341	e 5 4	+ 4	e 5 59	?	—
Sumoto	22.9	336	4 57	- 3	e 9 13	+10	—
Kobe	23.1	337	e 4 58	- 4	e 8 43	-24	—
Manila	24.1	275	4 56	-15	9 35	+10	—
Nanking	30.8	311	e 6 14	+ 2	11 11	- 6	e 14.0
Chiufeng	37.0	322	e 7 3	- 3	e 12 50	- 1	—
Santa Barbara	z. 85.9	55	e 12 46	+ 8	—	—	—
Haiwee	E. 86.9	53	e 12 44	+ 1	—	—	—
Pasadena	87.2	55	i 12 46	+ 2	—	—	—
Mount Wilson	87.3	55	i 12 47	+ 2	—	—	—
La Jolla	z. 88.3	57	i 12 51	+ 2	—	—	—

Additional readings:—

Sumoto PZ = +4m.58s.

Kobe ePE = +5m.0s., ePN = +5m.1s., eN = +8m.31s.

Long waves were also recorded at Hong Kong.

Oct. 30d. 18h. 9m. 53s. Epicentre $37^{\circ}5'S$. $72^{\circ}0'W$. (as on 1932 April 11d.). R.3.

$$A = +.2452, B = -.7545, C = -.6088; \quad \delta = +3;$$

$$D = -.951, E = -.309; \quad G = -.188, H = +.579, K = -.793.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
San Javier	1.9	7	0 20	- 8	0 38	-11	—	—
Santiago	4.2	15	0 56	- 4	1 43	- 5	—	—
La Plata	11.6	81	2 43	0	4 49	- 4	5.7	—
La Paz	21.3	10	i 4 44	+ 1	i 8 35	+ 3	11.6	12.9
Huancayo	25.6	354	5 28	+ 3	e 9 55	+ 4	—	—
Rio de Janeiro	28.7	67	—	—	e 10 27	-16	e 14.1	—
San Juan	56.1	7	—	—	e 21 13	SS	—	—
Tucson	78.6	328	12 3	+ 3	—	—	e 38.3	—
Mount Wilson	z. 83.5	323	i 12 29	+ 3	—	—	—	—
Pasadena	z. 83.5	323	i 12 30	+ 4	—	—	—	—
Ksara	122.8	71	e 18 31	PP	—	—	—	65.1
Samarkand	148.1	73	e 19 37	[- 2]	—	—	—	—

Additional readings:—

Huancayo e = +5m.32s., i = +5m.37s., PP = +6m.1s., i = +6m.8s., e = +7m.42s. and +8m.48s., S = +10m.3s.

Ksara ePS = +28m.28s., eSS = +35m.6s.

Long waves were also recorded at Rathfarnham Castle, Zurich, De Bilt, Uccle, Cape Town, Baku, Tiflis, Sverdlovsk, and Tashkent.

Oct. 30d. Readings also at 1h. (near Santiago), 2h. (near San Javier), 4h. (near Santiago), 6h. (Kobe, near Mizusawa, and near Nagoya), 7h. (Mount Wilson and Pasadena), 8h. (Mount Wilson and Pasadena), 9h. (Mount Wilson, Pasadena, and Manila), 10h. (Mount Wilson, Pasadena, Santa Barbara, and La Jolla), 11h. (Sofia, Yalta, Manila, Nanking, Hong Kong, Tiflis, and near Wellington), 13h. (Arapuni, Fresno, and Mizusawa), 14h. (Hyderabad, Bombay, Calcutta, Tashkent, and Sverdlovsk), 18h. (Santiago, and San Javier (4)), 19h., 20h., and 22h. (near San Javier).

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Oct. 31d. 15h. 0m. 37s. Epicentre 32°·0S. 175°·5W. N.3.

A = -·8454, B = -·0665, C = -·5299; $\delta = -8$;
D = -·078, E = +·997; G = +·528, H = +·042, K = -·848.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	9·4	227	—	—	i 4 47	S*	—	—
Wellington	12·1	217	—	—	i 4 58	- 7	—	—
Christchurch	14·8	216	—	—	6 3	- 7	—	6·4
Sydney	28·0	258	e 5 47	0	e 10 23	- 9	13·4	15·8
Melbourne	32·7	249	i 6 41	+12	e 11 41	- 5	14·9	17·2
Pasadena	Z. 85·3	45	i 12 35	0	—	—	—	—
Mount Wilson	Z. 85·5	45	i 12 35	- 1	—	—	—	—
Haiwee	86·8	44	e 12 43	+ 1	—	—	—	—
Tinemaha	N. 87·3	43	e 12 45	0	—	—	—	—
Tucson	88·6	50	i 12 53 _a	+ 2	e 23 37	- 6	e 40·5	—
Nanking	89·2	309	—	—	e 23 23	-25	e 43·4	—
Vladivostok	89·2	324	—	—	e 22 59	[-29]	44·0	50·8
Semipalatinsk	122·8	313	e 24 8	?	e 25 34	[-25]	—	—
Almata	123·3	304	—	—	e 25 34	[-26]	—	—
Tashkent	128·4	299	—	—	e 30 4	SKSP	e 61·3	72·2
Sverdlovsk	134·6	320	i 19 19	[+ 5]	—	—	65·4	—
Grozny	145·8	302	19 32	[- 4]	—	—	—	—
Tiflis	146·7	299	e 19 29	[- 8]	—	—	79·9	86·4
Erevan	146·9	296	19 35	[- 2]	—	—	—	—
Pulkovo	147·4	336	i 19 30	[- 8]	—	—	e 79·4	—
Sotchi	150·1	304	19 42	[0]	—	—	—	—
Theodosia	152·8	308	e 19 52	[+ 6]	—	—	—	—
Simferopol	153·6	308	e 19 51	[+ 4]	—	—	—	—
Ksara	153·7	281	e 19 45	[- 2]	—	—	74·4	82·4
Yalta	153·8	307	i 19 49	[+ 2]	—	—	—	—
Sebastopol	154·1	308	e 20 2	[+15]	—	—	—	—
Chur	164·6	347	e 20 46	[+47]	—	—	—	—
Almeria	172·5	48	e 24 2	PKS	—	—	—	—

Additional readings :—

Wellington S = +5m.2s.

Christchurch i = +6m.13s. and +6m.18s.

Melbourne i = +7m.42s.

Tashkent i = +30m.14s.

Sverdlovsk i = +22m.45s. and +23m.1s., e = +34m.57s.

Ksara ePP = +23m.31s.

Long waves were also recorded at Riverview, Perth, Bombay, Kodaikanal, Strasbourg, Paris, and Kew.

Oct. 31d. Readings also at 0h. (Zagreb), 2h. (Christchurch and near San Javier (2)), 5h. (Sumoto and near Kobe), 6h. (near Mizusawa), 8h. (Santiago), 14h. (La Plata, near San Javier, and Santiago), 16h. (Baku and Pulkovo), 17h. (Balboa Heights and Hastings), 18h. (Hastings, Ivigtut, and Paris), 21h. (San Javier), 22h. (near Berkeley and San Francisco), 23h. (Tacubaya).

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Nov. 1d. 0h. 23m. 45s. Epicentre 44°·5N. 26°·5E. (as on 1929 May 20d.). R.3.

$$A = +.6383, B = +.3183, C = +.7009; \quad \delta = 0;$$

$$D = +.446, E = -.895; \quad G = +.627, H = +.313, K = -.713.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bucharest	0.3	254	e 0 25	?	i 0 41	?	—	—
Sofia	2.9	232	e 0 53	P _g	i 1 21	S*	—	—
Belgrade	4.3	276	e 1 3k	+ 2	i 2 8	S _g	—	2.4
Sebastopol	5.0	87	i 1 10	- 1	i 2 5	- 3	—	—
Simferopol	5.4	83	i 1 14	- 3	i 2 12	- 6	—	—
Yalta	5.5	87	i 1 15	- 3	i 2 14	- 6	—	—
Theodosia	6.2	82	i 1 27	- 1	2 34	- 4	—	—
Vienna	7.9	302	e 1 51	- 1	3 54	S*	—	—
Sotchi	9.6	91	e 2 18	+ 2	i 3 52	-11	—	—
Prague	9.9	308	e 3 33	?	—	—	—	—
Chur	12.1	287	e 2 46	+ 3	—	—	—	—
Ksara	12.9	143	e 3 16	+15	e 5 57	+32	—	—
Moscow	13.2	28	—	—	e 5 39	+ 7	e 6.4	—
Tifis	13.6	96	e 3 12	+ 2	e 5 36	- 5	—	—
Grozny	13.9	88	e 4 7	+53	—	—	—	—
Pulkovo	15.4	7	—	—	i 5 39	-45	i 7.3	—
Toledo	23.0	269	e 3 50	-71	—	—	—	—

Additional readings:—

Sofia S_g = +1m.37s.

Belgrade iZ = +1m.14s., +1m.36s., and +2m.8s.

Toledo i = +4m.13s.

Long waves were also recorded at Czernowitz, Sverdlovsk, and Zurich.

Nov. 1d. 16h. 10m. 6s. Epicentre 37°·5S. 72°·0W. (as on Oct. 30d.). X.

$$A = +.2452, B = -.7545, C = -.6088; \quad \delta = +3;$$

$$D = -.951, E = -.309; \quad G = -.188, H = +.579, K = -.793.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
San Javier	1.9	7	0 22	- 6	0 39	-10	—	—
Santiago	4.2	15	0 55	- 5	1 39	- 9	—	—
La Plata	11.6	81	2 41	- 2	5 24	+31	6.1	—
La Paz	21.3	10	4 46k	+ 3	i 8 41	+ 9	11.2	13.5
Huancayo	25.6	354	e 5 30	+ 5	9 58	+ 7	—	—
Rio de Janeiro	E. 28.7	67	e 6 19	+26	e 10 34	- 9	e 13.6	—
	N. 28.7	67	e 6 16	+23	e 10 33	-10	e 13.6	—
San Juan	56.1	7	e 14 59	?	e 17 26	+ 2	e 30.4	—
Tucson	78.6	328	e 12 6	+ 6	—	—	e 38.9	—
Christchurch	80.1	221	—	—	e 22 39	+22	37.7	43.7
Mount Wilson	z. 83.5	323	i 12 33	+ 7	—	—	—	—
Pasadena	83.5	323	e 12 32	+ 6	—	—	e 43.9	—
Tinemaha	86.1	324	e 12 45	+ 6	—	—	—	—
Toledo	99.3	47	—	—	e 35 54?	SSS	—	—
Ksara	122.8	71	e 20 50	PP	—	—	55.9	65.4
Tifis	132.2	65	e 22 45	PKS	e 33 34	?	67.9	—
Grozny	133.4	63	—	—	i 31 16	SKSP	—	—
Baku	135.5	68	—	—	e 34 13	?	67.9	79.5
Sverdlovsk	143.5	43	e 19 52	[+23]	e 41 42	SS	63.9	79.4
Tashkent	150.1	71	i 19 58	[+16]	—	—	—	96.2

Additional readings:—

La Paz iPZ = +4m.50s.

Huancayo e = +5m.48s., ePP = +6m.2s. = PPP + 0s., ePP = +16m.5s. =

PPPP + 1s., e = +6m.14s., e = +8m.32s., S = +10m.9s.

San Juan e = +16m.12s.

Tucson e = +36m.24s.

Ksara e = +30m.38s.

Tifis e = +32m.15s.

Baku e = +44m.55s., e = +53m.26s.

Tashkent e = +67m.12s.

Long waves were also recorded at Cape Town, Perth, Bombay, Nanking, and other European stations.

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The numerous shocks recorded on Nov. 1 at San Javier from the epicentre of 16h. are listed below. Except when S appears after the figures for the time it is intended that the reading be taken as P and that an S reading follows 17s. later in each case.

h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
1	10	28	16	30	55S	17	8	5	19	7	28S
16	14	33	16	32	54S	17	9	15S	19	9	31S
16	16	52S	16	33	28S	17	16	26S	19	9	34
16	17	26S	16	34	5	17	17	30S	19	10	51S
16	18	15S	16	34	57S	17	19	0S	19	17	20S
16	18	33S	16	35	23S	17	19	12	19	32	20S
16	20	16	16	35	40S	17	23	38S	19	43	49
16	20	53	16	36	54S	17	25	46S	19	47	22
16	22	43S	16	40	27S	17	26	36S	19	53	34S
16	23	58S	16	42	53S	17	52	28	20	11	58S
16	24	36	16	44	31	17	57	26S	20	50	56S
16	26	0S	16	46	31S	18	22	17S	21	9	39
16	27	0S	16	47	13	18	22	52	21	11	0S
16	27	10	16	52	30S	18	42	45S	21	11	40S
16	29	4S	16	53	48	18	44	40S	21	42	42S
16	29	20S	16	54	51S	18	46	58S	21	45	43
16	29	50?S	16	58	39S	18	51	9	22	5	15S
16	30	18	17	2	45	19	1	15	23	2	59S

Nov. 1d. 22h. Laibach attributes the undermentioned readings to 46°·1N. 15°·9E.

Marseilles eS? = 33m.18s. (in error?).

Zagreb iP_g = 36m.12s. k i = 36m.13s. and 36m.14s., iNE = 36m.15s., M = 36m.23s.

Laibach iP_g = 36m.28s., iS_g = 36m.44s., M = 37m.3s.

Vienna ePZ = 36m.48s., S = 37m.22s.

Padova 37m.0s.

Belgrade e = 37m.10s., 37m.59s., and 38m.10s.

Strasbourg e = 38m., eS_g = 39m.30s.

Jena eN = 38m.24s., eE = 38m.28s., eN = 38m.40s., M = 39m.24s.

Stuttgart eS_g = 39m.0s.

Toledo ePN = 39m.56s., iSN = 42m.53s., P_cPN = 44m.54s., P_cSN = 48m.31s., S_cSN = 52m.8s.

Nov. 1d. Readings also at 0h. (Mount Wilson and Pasadena), 1h. (near Berkeley), 2h. (Agra, Tashkent (2), near Andijan (2), and Frunse), 3h. (Almata, Frunse, Semipalatinsk, Calcutta, Sverdlovsk, and Ksara), 4h. (near Florissant and Little Rock), 11h. (Balboa Heights), 12h. (near Bunnythorp and near Wellington), 14h. (near Medan), 15h. (Branner, Lick, and near Fresno), 17h. (Santiago, Mount Wilson, Pasadena, Manila, near Mizusawa, Nagoya, and Keizyo), 18h. (Taikyū, Zinsen, near Hukuoka B, Nanking, and near Santiago), 19h. (Cheb, La Paz, La Plata, Rio de Janeiro, and near Santiago (2)), 21h. (Tacubaya), 22h. (near Zagreb (2)), 23h. (Nanking).

Nov. 2d. 14h. 57m. 53s. Epicentre 47°·5N. 153°·9E. N.1.

$$A = -.6067, B = +.2972, C = +.7373; \quad \delta = +2;$$

$$D = +.440, E = +.898; \quad G = -.662, H = +.324, K = -.676.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nemuro	7.2	238	1 42	0	3 0	- 4	—	—
Sikka	7.4	288	0 35	-70	1 42	P	—	—
Ootomari	7.6	268	1 14	-34	2 16	-58	—	—
Kusiro	8.0	240	1 38	-15	3 6	-18	—	—
Obihiro	8.8	243	2 1	- 4	3 20	-24	—	—
Asahigawa	8.9	250	2 14	+ 8	—	—	—	—
Haboro	9.0	255	1 53	-14	—	—	—	—
Urakawa	9.5	240	2 9	- 5	3 53	- 8	—	—
Sapporo	9.9	248	2 25	+ 6	4 21	+10	—	—
Muroran	10.6	245	2 29	0	4 34	+ 6	—	—

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	Δ °	Az. °	P. m. s.	O - C. s.	S. m. s.	O - C. s.	L. m.	M. m.
Hakodate	11.0	243	2 38	+ 3	—	—	—	—
Hatinohe	11.3	237	2 33	- 6	4 31	-14	—	—
Aomori	11.5	239	2 41	- 1	4 42	- 8	—	—
Morioka	12.1	235	2 48	- 2	4 56	- 9	—	—
Mizusawa	12.5	232	e 2 51	- 4	i 5 3	-12	—	—
Akita	12.7	237	3 22	+24	5 36	+16	—	—
Isinomaki	12.9	230	3 3	+ 2	5 29	+ 4	—	—
Sendai	13.2	231	3 2	- 3	—	—	—	—
Yamagata	13.5	232	3 12	+ 3	—	—	—	—
Hukusima	13.8	230	3 10	- 3	5 36	-10	—	—
Aidu	14.1	231	3 0	-17	5 25	-28	—	—
Niigata	14.5	234	4 2	+40	—	—	—	—
Mito	14.9	227	3 28	+ 1	—	—	—	—
Utunomiya	15.1	229	3 28	- 2	—	—	—	—
Kakioka	15.2	227	3 25	- 6	6 6	-14	—	—
Tukubasan	15.2	227	3 28	- 3	6 6	-14	—	—
Tyosi	15.2	224	3 28	- 3	5 50	-30	—	—
Takada	15.5	234	3 44	+ 9	—	—	—	—
Kumagaya	15.6	229	3 33	- 3	—	—	—	—
Maebasi	15.6	230	3 35	- 1	6 23	- 6	—	—
Tokyo	15.8	227	3 41	+ 2	6 43	+ 9	—	—
Nagano	15.9	233	3 41	+ 1	6 37	+ 1	—	—
Oiwake	15.9	231	3 39 ^a	- 1	6 37	+ 1	—	—
Vladivostok	16.0	262	i 3 44	+ 3	i 7 7	+29	8.0	9.7
Wazima	16.1	237	3 48	+ 5	—	—	—	—
Yokohama	16.1	227	3 41	- 2	6 45	+ 4	—	—
Yokosuka	16.2	226	3 57	+13	—	—	—	—
Matumoto	16.3	232	3 44	- 1	6 45	0	—	—
Hunatu	16.4	229	3 47	+ 1	6 46	- 2	—	—
Husiki	16.4	235	3 46	0	6 32	-16	—	—
Kohu	16.4	230	3 47	+ 1	6 49	+ 1	—	—
Mera	16.4	225	3 49	+ 3	6 50	+ 2	—	—
Toyama	16.4	235	3 47	+ 1	6 59	+11	—	—
Misima	16.6	227	3 50	+ 1	—	—	—	—
Ito	16.7	227	3 46	- 4	6 39	-16	—	—
Numadu	16.7	228	3 49	- 1	—	—	—	—
Takayama	16.7	234	3 59	+ 9	—	—	—	—
Kanazawa	16.8	235	4 3 ^a	+11	7 8	+11	—	—
Gihu	17.6	233	4 0	- 2	7 19	+ 4	—	—
Hamamatu	17.6	229	4 4	+ 2	7 25	+10	—	—
Nagoya	17.6	232	4 3	+ 1	—	—	8.6	11.8
Ibukisan	17.8	234	4 7	+ 3	7 22	+ 2	—	—
Hatidyozima	17.9	220	4 8	+ 3	7 22	0	—	—
Hikone	18.0	234	4 7	0	7 25	0	—	—
Kameyama	18.1	233	4 14	+ 6	7 37	+10	—	—
Tu	18.2	233	4 20	+11	7 43	+14	—	—
Miyadu	18.3	237	4 9	- 1	—	—	—	—
Kyoto	18.4	234	4 10	- 1	—	—	—	—
Toyooka	18.5	237	4 12	- 1	7 42	+ 6	9.5	11.8
Osaka	18.8	233	3 43	-33	—	—	—	—
Osaka B	18.8	233	4 9	- 7	7 52	+10	—	—
Yagi	18.8	233	4 14	- 2	—	—	—	—
Kobe	19.0	234	e 4 18	- 1	7 51	+ 5	—	11.3
Wakayama	19.3	233	4 21	- 1	7 46	- 6	—	—
Sumoto	19.4	233	4 22 ^a	- 1	8 0	+ 6	e 10.1	13.4
Okayama	19.7	236	4 29	+ 3	8 5	+ 5	—	—
Tokusima	19.8	233	4 28	+ 1	8 7	+ 5	—	—
Tadotu	20.1	235	4 30	- 1	8 13	+ 5	—	—
Sinkyo	20.2	270	3 34	-58	—	—	—	—
Hamada	20.6	239	4 39	+ 3	8 24	+ 6	—	—
Muroto	20.6	233	4 38 ^a	+ 2	8 27	+ 9	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hirosima	20.7	238	4 39	+ 2	—	—	—	—
Koti	20.7	235	4 40	+ 3	—	—	—	—
Matuyama	21.0	237	4 41	+ 1	8 33	+ 7	—	—
Simjdu	21.6	234	4 51	+ 5	8 48	+10	—	—
Heizyo	22.0	258	i 4 53a	+ 2	i 8 59	+13	c 12.4	—
Keizyo	22.0	253	i 4 53k	+ 2	c 8 53	+ 7	c 11.3	14.9
Taikyu	22.0	248	4 56	+ 5	8 58	+12	11.5	—
Husan	22.3	246	i 5 5	+11	9 7	+15	11.8	—
Zinsen	z. 22.3	254	c 4 52a	- 2	i 9 7	+15	c 11.9	14.0
Titizima	22.4	208	4 54	- 1	—	—	—	—
Hukuoka	22.5	240	4 58	+ 2	9 0	+ 5	11.3	—
Hukuoka B	22.5	240	4 58	+ 2	i 9 5	+10	c 13.7	14.1
Saga	22.8	239	5 10	+11	9 15	+14	—	—
Kumamoto	22.9	239	5 3	+ 3	—	—	—	—
Miyazaki	23.1	235	5 4a	+ 2	9 14	+ 7	—	—
Unzendake	23.2	239	5 12	+ 9	9 18	+10	—	—
Nagasaki	23.4	239	5 7a	+ 2	9 20	+ 8	—	—
Yingkow	23.6	266	4 25	-41	—	—	—	—
Kagosima	23.9	236	5 12	+ 3	—	—	—	—
Tomie	24.1	242	5 14	+ 3	9 21	- 4	—	—
Dairen	24.9	262	5 4	-15	9 26	-13	—	—
Nake	26.9	233	5 48	+11	10 33	+19	—	—
Chiufeng	28.0	270	5 49	+ 2	10 26	- 6	c 13.6	17.4
Naha	29.6	234	6 4	+ 3	10 58	0	—	—
Zi-ka-wei	29.6	249	i 6 7k	+ 6	10 59	+ 1	15.4	17.1
Nanking	30.7	254	i 6 14	+ 3	i 11 16	0	14.5	19.7
Taihoku	34.0	240	e 11 53	S	(e 11 53)	-13	—	21.4
College	35.1	39	7 12	+22	c 12 31	+ 8	17.0	—
Arisan	35.6	240	6 17	-37	—	—	—	—
Taito	36.0	239	7 0	+ 2	—	—	—	—
Hong Kong	40.5	246	7 36a	0	13 44	0	19.8	24.3
Sitka	42.3	50	e 7 52	+ 1	e 14 5	- 5	c 20.9	—
Manila	42.7	231	i 7 56a	+ 2	14 13	- 3	—	—
Phu-Lien	46.3	252	e 8 24	+ 1	15 9	0	23.1	29.0
Sempalatinsk	46.4	303	8 23	- 1	—	—	23.6	—
Honolulu	46.6	106	e 8 10	-15	14 58	-15	i 21.5	—
Almata	52.0	296	e 9 8	+ 2	—	—	25.1	—
Seattle	53.5	56	e 9 15	- 3	e 16 58	+ 9	e 23.2	—
Frunse	53.6	297	9 17	- 1	c 16 48	- 2	25.1	—
Andijan	56.2	295	9 39	+ 2	17 44	+19	29.1	—
Tchimkent	56.9	299	e 9 47	+ 5	—	—	—	—
Calcutta	E. 57.3	269	9 50	+ 5	17 45	+ 5	27.2	—
Tashkent	57.7	298	i 9 50	+ 2	i 17 45	- 1	28.9	30.4
Ukiah	58.0	65	c 10 0	+10	e 17 40	- 9	e 25.1	—
Dehra Dun	59.0	283	9 57	0	18 7	+ 4	28.8	37.1
Berkeley	59.3	66	e 9 59	- 1	e 18 8	+ 1	—	—
Branner	59.7	67	e 10 1	- 1	—	—	—	—
Lick	N. 60.1	68	e 10 5	0	—	—	—	—
Samarkand	60.1	298	10 7	+ 2	—	—	30.1	—
Bozeman	60.9	53	—	—	18 28	0	c 27.2	—
Fresno	N. 61.6	66	e 10 18	+ 2	—	—	—	—
Scoresby Sund	62.0	359	10 20	+ 2	—	—	32.1	—
Tinemaha	62.3	65	e 10 19	- 1	c 18 51	+ 5	—	—
Haiwee	E. 63.1	65	e 10 24	- 2	e 18 54	- 2	—	—
Santa Barbara	63.1	68	e 10 26	0	—	—	—	—
Pulkovo	63.3	332	e 10 27	0	18 54	- 5	31.1	40.4
Moscow	63.8	326	e 10 32	+ 1	i 19 6	+ 1	32.1	43.9
Pasadena	64.3	67	i 10 32	- 2	i 19 8	- 3	e 29.4	—
Medan	64.5	246	10 32	- 3	19 7	- 7	e 36.1	—
Mount Wilson	64.9	67	e 10 31	- 7	e 19 6	-13	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Riverside	64.9	67	e 10 37	- 1	e 19 15	- 4	—	—
La Jolla	65.7	67	i 10 43	0	—	—	—	—
Upsala	66.9	338	i 10 51	0	e 19 41	- 2	e 32.1	36.6
Hyderabad	67.5	272	11 1	+ 6	19 54	+ 3	32.2	43.9
Batavia	67.8	232	i 10 58	+ 1	i 19 56	+ 2	e 40.1	—
Apia	68.5	144	—	—	i 19 55	- 8	e 30.4	—
Bergen	69.1	344	i 11 3k	- 2	19 50	-20	e 36.1	—
Baku	69.3	308	i 11 8	+ 2	i 20 20	+ 7	32.1	—
Grozny	69.3	313	11 10	+ 4	e 21 15	S _c S	37.7	—
Platigorsk	70.1	315	—	—	20 24	+ 2	36.1	—
Tucson	70.1	64	e 11 9	- 2	e 20 21	- 1	e 31.1	—
Bombay	70.3	277	i 11 11	- 2	i 20 21	- 4	34.1	44.0
Tiflis	71.0	312	i 11 17	0	20 32	- 1	35.1	41.0
Copenhagen	71.9	339	i 11 22 _a	0	20 42	- 2	34.1	—
Sotchi	72.1	317	11 25	+ 2	e 20 53	+ 7	37.6	—
Erevan	72.3	311	i 11 28	+ 3	e 20 57	+ 9	37.1	—
Theodosia	72.9	320	i 11 28	0	i 20 58	+ 2	37.6	—
Kodalkanal	73.3	267	i 11 29	- 2	i 20 58	- 2	i 35.9	49.6
Simferopol	73.5	321	i 11 33	+ 1	21 6	+ 3	38.1	—
Madison	73.6	44	e 11 32	0	e 20 58	- 6	—	—
Yalta	73.9	320	i 11 35	+ 1	21 9	+ 2	29.8	—
Czernowitz	74.1	327	i 11 19	-16	21 2	- 8	39.1	46.1
Sebastopol	74.1	321	i 11 36	+ 1	e 21 11	+ 1	34.7	—
Colombo	74.2	263	11 32	- 4	21 5	- 6	—	50.0
Hamburg	74.4	340	i 11 37 _a	0	i 21 13	0	e 37.1	46.1
Edinburgh	74.8	347	—	—	i 21 13	- 5	e 38.1	55.0
Chicago	75.5	44	—	—	21 17	- 9	e 35.0	—
Durham	75.7	346	11 44	0	21 45	+17	—	51.6
Göttingen	76.2	338	i 11 46 _k	- 1	i 21 31	- 3	e 37.1	41.7
Jena	76.4	336	e 11 47	- 1	e 21 34	- 2	e 38.1	48.6
Prague	76.4	334	i 11 46 _a	- 2	e 21 31	- 5	e 35.1	43.6
Florissant	76.5	47	e 10 53	-56	e 21 33	- 4	—	51.2
Stonyhurst	76.7	347	e 12 20	+30	i 21 46	+ 7	e 32.4	43.8
Ann Arbor	76.8	40	e 11 55	+ 5	i 21 43	+ 2	i 42.6	46.6
Cheb	76.9	336	e 11 53	+ 2	e 21 38	- 4	e 37.1	54.1
De Bilt	76.9	341	i 11 52 _a	+ 1	21 42	0	e 36.1	42.6
Bidston	77.2	347	i 11 57	+ 4	i 22 14	+29	e 38.1	51.1
Budapest	77.2	331	i 11 53 _k	0	21 51	+ 6	38.6	41.6
Bucharest	77.3	325	e 11 54	0	21 47	+ 1	37.1	43.6
Ottawa	77.4	34	e 18 7	PPPP	e 21 37	-10	42.1	—
Vienna	77.4	333	i 11 54 _a	0	e 21 37	-10	e 39.6	44.6
Rathfarnham Castle	77.8	349	i 12 6	+ 9	i 22 27	+35	41.6	53.1
Uccle	78.3	342	i 11 58 _a	- 1	21 56	- 1	36.1	45.6
Oxford	78.5	345	—	—	22 1	+ 2	42.3	50.4
Kew	78.6	344	i 12 1 _a	+ 1	e 21 59	- 1	e 38.1	51.2
Little Rock	78.6	51	e 12 2	+ 2	e 21 51	- 9	e 39.4	—
Graz	78.7	332	i 11 57	- 4	i 22 17	+15	e 39.1	52.4
Belgrade	79.0	328	i 12 2 _k	- 1	i 22 3	- 2	e 49.8	—
Stuttgart	79.0	337	i 12 3 _a	0	e 21 55	-10	e 38.1	50.3
Vermont	79.1	32	e 11 57	- 6	e 21 54	-12	e 37.3	—
Strasbourg	79.5	338	i 12 5 _a	0	i 22 9	- 1	e 36.1	48.5
Zagreb	79.7	332	i 12 6 _a	0	e 22 7	- 5	e 37.4	46.1
Sofia	79.8	326	i 12 8	+ 1	e 22 12	- 2	40.1	43.8
Lalbach	79.9	333	e 12 11 _k	+ 4	i 22 26	+11	e 53.6	—
Zurich	80.4	338	e 12 11 _a	+ 1	e 22 19	- 1	—	—
Basle	80.5	339	e 12 11	+ 1	e 22 21	0	—	—
Paris	80.5	342	i 12 12	+ 2	22 17	- 4	36.1	47.1
Ohur	80.7	337	e 12 12	0	e 22 17	- 6	—	—
East Machias	80.9	29	—	—	e 22 20	- 5	e 43.2	—
Jersey	81.1	345	e 12 13	- 1	i 22 22	- 5	42.9	52.7

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Besançon		81.2	340	i 12 12	- 2	e 22 23	- 5	e 38.1	—
Neuchatel		81.2	339	e 12 14	0	e 22 26	- 2	—	—
Padova		81.3	334	i 12 18	+ 3	i 22 29	- 1	e 44.1	55.1
Sydney		81.3	182	—	—	i 22 17	-13	44.1	55.4
Riverview		81.4	182	e 12 10	- 5	e 22 19	-12	e 33.3	42.8
Ksara		81.6	312	i 12 15 a	- 1	i 22 31	- 2	39.6	44.1
Weston		81.6	32	i 12 15	- 1	29 21	SS	—	—
Philadelphia		82.3	36	i 12 22	+ 2	22 18	-22	36.9	—
Florence		83.0	334	12 26	+ 3	22 35	-12	—	—
Adelaide		83.6	193	e 12 27	+ 1	i 22 41	-12	40.3	48.3
Columbia	E.	84.8	43	e 12 33	+ 1	e 22 43	[-15]	e 39.1	—
	N.	84.8	43	e 12 52	+20	e 22 49	[- 9]	40.3	—
Marseilles		85.0	338	i 11 57	-36	e 21 55	[-64]	e 37.6	46.1
Melbourne		85.7	187	e 15 52	PP	i 23 3	[- 1]	36.8	46.1
Perth		86.5	212	12 47	+ 6	23 7	[- 3]	43.4	—
Bagnères		86.5	341	—	—	e 22 7	[-63]	e 43.1	53.1
Tacubaya	N.	86.6	65	e 12 48	+ 7	i 23 16	- 7	—	—
Helwan		87.1	313	e 12 32	-12	23 22	- 6	—	57.3
Barcelona		87.6	340	—	—	e 23 30	- 3	e 44.7	52.6
Carleforte		88.1	334	12 25	-23	31 25	SSS	—	—
Toledo		90.4	344	i 12 59	0	i 23 46	[+11]	41.8	58.3
Algiers		91.8	337	13 55	+49	24 26	+13	45.1	52.1
Christchurch		92.5	167	i 13 5 a	- 4	24 4	-15	43.4	48.0
Almeria		93.0	341	e 13 12	+ 1	—	—	e 48.4	62.0
Granada		93.0	343	i 13 5	- 6	e 23 58	[+ 8]	—	—
San Fernando		94.2	344	e 16 41	PP	i 24 22	-13	48.1	—
Huancayo		125.8	66	—	—	e 25 14	[-53]	59.6	—
La Paz		133.7	62	i 19 13 a	[0]	i 28 17	[-28]	64.2	81.7
Cape Town	E.	144.3	276	i 19 34	[+ 2]	e 29 59	{+ 9}	69.7	79.3
	N.	144.3	276	i 19 31	[- 1]	26 34	SKS	69.9	83.5
Rio de Janeiro		151.9	34	i 20 7	{ 0}	—	—	i 42.6	—
La Plata		153.2	72	19 43	[- 3]	—	—	72.1	—

Additional readings :—

Toyooka SZ = +7m.44s.
Sumoto SZ = +8m.5s.
Zinsen IPZ = +4m.55s.
Zi-ka-wei PPZ = +6m.55s., PPPZ = +7m.10s., PPPPZ? = +7m.20s., SSZ = +12m.40s., SSSZ = +13m.16s., SSSSZ = +13m.26s.
Nanking PPP = +7m.20s., i = +11m.58s., SS = +12m.37s., i = +14m.2s.
College iS = +12m.37s., e = +13m.13s., eSS = +14m.45s., and +15m.14s.
Hong Kong PP? = +9m.17s., SS = +16m.28s.
Sitka eS = +14m.16s., S = +14m.19s., iSSS = +17m.31s.
Phu-Lien e = +8m.37s. and +18m.33s.
Honolulu eP = +8m.28s., PP = +9m.18s., ePPP = +10m.38s., S = +15m.8s., PS = +16m.18s., SS = +18m.39s. and +19m.9s., eSSS = +20m.3s.
Seattle eS = +17m.12s.
Berkeley ePE = +10m.1s., eE = +10m.4s., eN = +10m.7s., eN = +18m.11s.
Lick eE = +10m.10s.
Bozeman eS = +18m.32s., ePS = +18m.50s., eSS = +22m.19s.
Pasadena ePKP, PKP = +39m.16s.
Upsala iSE = +19m.45s., SS = +24m.16s., SSS = +27m.3s.
Bergen iZ = +11m.59s.
Tucson eSS = +24m.57s.
Bombay P_cPEN = +11m.27s., SSEN = +25m.29s.
Tiflis ePPN = +14m.5s., ePPP = +15m.46s., ePS = +21m.10s., eSKSN = +21m.26s., eSSN = +25m.34s., eSSSN = +28m.50s.
Copenhagen +29m.7s.?
Kodaikanal PPE = +14m.19s., iSSE = +25m.39s.
Madison +26m.11s.
Czernowitz iN = +11m.32s., PPN = +12m.21s., PPP = +16m.7s.? PSN = +21m.42s., SSN = +26m.24s.
Edinburgh i = +21m.34s. and +23m.21s.
Chicago eS = +21m.24s., eSS = +25m.31s. and +26m.4s., eSSS = +29m.32s. and +29m.48s., eL = +40m.1s.
Florissant eE = +11m.14s., eEZ = +11m.49s., eE = +11m.51s., iE = +12m.1s. and +21m.34s.
Ann Arbor ePPN = +15m.1s., ePPPN = +17m.13s., eSSN = +26m.49s., eSSS = +30m.49s.

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De Bilt iPPZ = +14m.47s.
 Bidston i = +12m.12s., ePP = +14m.51s., e = +21m.46s., ePS = +22m.31s.
 Budapest iPE = +11m.59s., iE = +12m.5s., iEN = +12m.11s., P_cPN = +12m.23s., eE = +12m.39s., eN = +12m.53s., iN = eE = +13m.15s., iN = +14m.3s. and +21m.53s., iE = +21m.59s. and +22m.15s., iN = +22m.21s.
 Bucharest PPE = +14m.59s., SE = +21m.51s., PSE = +22m.26s.
 Ottawa e = +26m.37s. = SS + 3s., eN = +31m.25s. = SSSS - 11s.
 Rathfarnham Castle i = +21m.30s. and +22m.2s., +26m.9s., +30m.30s., e = +40m.17s.
 Uccle ePP = +14m.50s., PSN = +22m.40s., SSN = +26m.59s.
 Kew iNZ = +12m.6s., ePPN = +15m.3s., i = +22m.18s., ePSN = +22m.53s., eSSE = +27m.13s.
 Little Rock iEN = +12m.16s., ePPEN = +14m.58s.
 Belgrade iS = +22m.6s.
 Stuttgart eP_cP = +12m.33s., e = +14m.7s., ePPP = +16m.56s., eSEN = +27m.7s., ePS = +22m.43s.
 Vermont e = +26m.23s., eSS = +26m.55s., eSS = +27m.20s., e = +33m.7s.
 Strasbourg i = +12m.38s., PS = +23m.7s., SS = +27m.37s., SSS = +30m.27s.
 Zagreb i = +12m.21s., iNW = +22m.22s., eNE = +22m.30s., e = +28m.1s., eNW = +32m.7s.?
 Laibach i = +12m.49s. and +13m.34s.
 Paris PP = +15m.31s.
 East Machias e = +32m.17s. and +42m.9s.
 Jersey i = +14m.43s., +17m.47s., +22m.41s., and +24m.20s.
 Riverview ePN = +12m.12s., eEN = +12m.51s.
 Ksara iPP = +15m.25s., iPS = +23m.14s.
 Weston SS = +29m.21s., SSS = +33m.36s.
 Philadelphia eSS = +27m.45s., eSSS = +31m.24s.
 Adelaide e = +14m.13s. and +19m.11s., ePS = +23m.20s., i = +28m.25s., e = +33m.5s.
 Columbia e = +19m.31s., ePS = +23m.52s., eSS = +28m.30s.
 Marseilles e = +12m.7s., +22m.20s., ePS = +22m.34s.
 Melbourne iS = +23m.20s., i = +28m.40s. = SS + 3s.
 Perth PP = +16m.2s., SS = +29m.7s., SSS = +33m.7s., SSSS = +35m.32s., ? = +43m.22s.
 Bagnères eSS = +27m.37s.
 Helwan i = +12m.52s.
 Toledo pPZ = +13m.36s., PPEN = +16m.31s., S_cSN = +23m.52s., PSN = +24m.53s., PKKPN = +30m.32s., SSSE = +33m.17s., P_cPPKPE = +35m.23s., GN = +37m.37s., PKP,PKPN = +38m.47s., PKP,PKSN = +42m.25s.
 Algiers SKS = +23m.26s., PS = +25m.7s.?
 Christchurch SKS = +23m.28s., GE = +38m.2s.
 San Fernando eSKS = +22m.57s., SS = +30m.53s.
 Huancayo eSKKS = +27m.31s., eSKKS = +27m.43s., ePS = +31m.16s., e = +36m.21s., SS = +38m.16s.
 La Paz iPPN = +21m.25s., iSKPN = +22m.43s., iPPP = +24m.13s., iSKSP = +32m.1s., SSN = +39m.7s.
 Cape Town iPP = +22m.54s., iSKP = +23m.5s., iE = +23m.55s., ePPP = +26m.1s., iS_cP_cS = +26m.34s., iE = +27m.41s., iPSKSE = +33m.6s., iN = +33m.51s., iPPSE = +35m.35s., iPPSN? = +35m.38s., iN = +40m.28s., iSSE = +42m.3s., iSSSN = +47m.34s., iSSSE = +51m.36s.
 Long waves were also recorded at Tananarive, San Juan, Ivigtut, and Tortosa.

Nov. 2d. 20h. 46m. 3s. Epicentre 38°·3N. 141°·9E. R.1.

(as on 1933 Oct. 11d. and near 38°·4N. 142°·0E., the position determined by Japanese stations).

A = -·6176, B = +·4841, C = +·6198; δ = -7;
 D = +·617, E = +·787; G = -·488, H = +·382, K = -·785.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Isinomaki	0·5	286	0 13	+ 6	0 27	+14	—	—
Sendai	0·9	268	0 11k	- 2	0 25	+ 2	—	—
Mizusawa	1·0	324	i 0 13k	- 1	—	—	—	—
Yamagata	1·2	268	0 18k	+ 1	0 35	+ 4	—	—
Hokusima	1·3	244	0 17k	- 1	0 36	+ 3	—	—
Miyako	1·3	3	0 18a	0	0 35	+ 2	—	—
Morioka	1·5	338	0 19k	- 2	0 38	- 1	—	—
Onahama	1·6	210	0 21k	- 2	0 39	- 2	—	—
Akita	2·0	315	0 28k	- 1	0 57	+ 6	—	—
Mito	2·2	211	0 33k	+ 2	0 56	- 1	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hatinohe	2.3	353	0 28	- 5	0 58	- 1	—	—
Niigata	2.3	261	0 37 _a	+ 4	1 8	+ 9	—	—
Utunomiya	2.4	223	0 35 _k	+ 1	1 3	+ 1	—	—
Kakioka	2.5	214	0 34 _k	- 2	0 56	- 8	—	—
Tukubasan	2.6	215	0 35 _k	- 2	1 6	- 1	—	—
Aomori	2.7	341	0 37	- 2	1 9	0	—	—
Tyosi	2.7	198	0 40 _k	+ 1	0 59	-10	—	—
Kumagaya	3.0	223	0 43 _k	0	1 13	- 4	—	—
Maebasi	3.0	230	0 43 _k	0	1 5	-12	—	—
Komaba	3.2	214	0 43	- 3	1 19?	- 3	—	—
Takada	3.2	248	0 47 _k	+ 1	1 24	+ 2	—	—
Tokyo, Cent. Met. Obs.	3.2	213	0 47 _k	+ 1	1 25	+ 3	—	1.7
Tokyo, I.U.	3.2	213	0 44 _a	- 2	1 21	- 1	—	—
Mitaka	3.3	217	0 45	- 2	1 24	- 1	—	—
Oiwake	3.3	234	0 44 _k	- 3	1 22	- 3	—	—
Katuura	3.4	203	0 50	+ 1	1 31	+ 4	—	—
Nagano	3.4	242	0 50 _k	+ 1	1 27	0	—	—
Yokohama	3.4	213	0 48 _k	- 1	1 26	- 1	—	—
Kamakura	3.5	213	0 52	+ 2	1 32	+ 2	—	—
Hakodate	3.6	345	1 0 _a	P*	1 35	+ 3	—	—
Hunatu	3.8	223	0 56 _a	+ 2	1 37	0	—	—
Kohu	3.8	227	0 56 _k	+ 2	1 41	+ 4	—	—
Matumoto	3.8	237	0 51 _k	- 3	1 39	+ 2	—	—
Mera	3.8	206	0 56	+ 2	1 40	+ 3	—	—
Urakawa	3.9	9	0 46	-10	1 36	- 4	—	—
Misima	4.0	217	0 58 _a	+ 1	1 42	0	—	—
Numadu	4.0	218	0 56	- 1	1 46	+ 4	—	—
Ito	4.1	216	0 59 _a	+ 1	1 39	- 6	—	—
Muroran	4.1	349	0 58 _a	0	1 57	S*	—	—
Toyama	4.1	248	1 0 _k	+ 2	1 43	- 2	—	—
Wazima	4.1	258	0 59 _k	+ 1	2 12	S _g	—	—
Husiki	4.2	251	0 59 _k	- 1	1 56	+ 8	—	—
Iida	4.3	231	1 4	+ 3	1 54	+ 4	—	—
Takayama	4.3	242	1 4 _k	+ 3	1 58	+ 8	—	—
Kanazawa	4.6	249	1 3 _k	- 3	2 8	+10	—	—
Obihiro	4.7	11	1 2	- 5	2 2	+ 2	—	—
Omaesaki	4.8	219	1 10	+ 2	2 3	0	—	—
Sapporo	4.8	355	1 9 _k	+ 1	2 4	+ 1	—	—
Hamamatu	4.9	225	1 12 _k	+ 2	2 12	+ 7	—	—
Gihu	5.0	237	1 13 _k	+ 2	2 8	0	—	—
Kusiro	5.0	22	0 50	-21	1 48	-20	—	—
Nagoya	5.1	233	1 16 _a	+ 3	2 16	+ 6	—	2.6
Ibukisan	5.3	239	1 24 _k	P*	2 21	+ 6	—	—
Asahigawa	5.5	4	1 20	+ 2	2 21	+ 2	—	—
Hatidyozima	5.5	200	1 19 _k	+ 1	2 11	- 9	—	—
Hikone	5.5	238	1 20 _a	+ 2	2 23	+ 3	—	—
Kameyama	5.6	233	1 19 _a	- 1	2 20	- 3	—	—
Tu	5.6	233	1 26 _k	+ 6	2 33	+10	—	—
Nemuro	5.7	28	1 16	- 5	2 18	- 7	—	—
Kyoto	6.0	239	1 25	0	2 32	- 1	—	—
Miyadu	6.0	245	1 24	- 1	2 35	+ 2	—	—
Yagi	6.2	234	1 29	+ 1	2 40	+ 2	—	—
Osaka	6.3	237	1 31	+ 1	2 49	+ 8	—	—
Osaka B	6.3	237	1 30 _a	0	3 26	S _g	—	—
Toyooka	6.3	246	1 31 _k	+ 1	2 40	- 1	—	3.7
Kobe	6.5	239	1 33 _k	+ 1	2 39	- 7	—	—
Sumoto	6.9	237	1 37 _a	- 1	3 5	+ 9	—	4.0
Wakayama	6.9	237	1 37 _a	- 1	2 55	- 1	—	—
Tokusima	7.3	237	1 43 _k	- 1	3 30	S*	—	—
Okayama	7.4	243	1 45 _k	0	3 9	0	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tadotu	7.7	241	1 48 _a	- 1	3 36	S*	—	—
Muroto	8.1	233	1 55 _a	0	3 43	+17	—	—
Koti	8.3	238	1 56 _a	- 2	3 13	-18	—	—
Ootomari	8.4	4	1 33	-26	3 57	+23	—	—
Kure	8.5	245	1 50 _k	-10	3 36	0	—	—
Hamada	8.6	250	2 5	+ 3	3 38	- 1	—	—
Hirosima	8.6	246	2 2	0	3 47	+ 6	—	—
Matuyama	8.7	242	2 3 _a	0	4 28	S _g	—	—
Vladivostok	8.9	306	2 2	- 4	3 59	+13	—	5.1
Simidu	9.1	236	2 12 _a	+ 3	3 56	+ 5	—	—
Uwazima	9.1	239	2 11 _a	+ 2	4 10	+19	—	—
Ooita	9.8	242	2 21	+ 3	4 52	S*	—	—
Simonoseki	9.9	248	2 22	+ 3	4 38	+27	—	—
Hukuoka	10.5	247	i 2 27 _a	- 1	i 4 29	+ 3	—	6.6
Hukuoka B	10.5	247	i 2 27 _a	- 1	i 4 25	- 1	—	6.5
Kumamoto	10.6	242	2 30 _a	+ 1	4 49	+21	—	—
Miyazaki	10.7	237	2 30 _a	- 1	4 21	-10	—	—
Saga	10.7	245	2 34	+ 3	5 42	S _g	—	—
Husan	10.8	256	i 2 32 _a	0	4 27	- 6	—	5.0
Taikyū	10.9	261	i 2 37 _a	+ 4	i 4 38	+ 2	5.6	6.5
Ituhara	11.0	252	2 36	+ 1	5 7	S _g	—	—
Unzendake	11.0	243	2 57 _a	+22	5 29	S*	—	—
Titizima	11.2	179	3 2	+25	—	—	—	—
Nagasaki	11.3	244	2 37 _a	- 2	4 44	- 1	—	—
Kagosima	11.5	238	2 43	+ 1	5 48	S _g	—	—
Keizyo	11.8	271	i 2 47 _a	+ 1	i 5 2	+ 4	—	7.2
Zinsen	N. 12.1	271	i 2 51 _a	+ 1	i 5 2	- 3	—	5.7
Tomie	12.2	246	2 50 _a	- 1	4 49	-19	—	—
Heizyo	12.6	279	2 57 _a	+ 1	i 6 3	S*	—	7.4
Sinkyō	13.7	300	3 7	- 4	4 53	-51	—	—
Nake	14.4	230	3 17 _a	- 4	6 8	+ 7	—	—
Yingkow	15.4	285	3 15 _a	-19	—	—	—	—
Dairen	15.9	279	3 15	-25	6 5	-31	—	—
Naha	17.0	229	3 50	- 4	7 7	+ 5	—	—
Zi-ka-wei	18.2	253	i 4 6	- 3	7 26	- 3	—	12.3
Nanking	19.8	259	i 4 23	- 4	i 8 17	+15	10.6	12.4
Chiufeng	20.0	284	i 4 24	- 6	8 8	+ 2	9.4	11.5
Isigakizima	20.6	232	4 26	-10	8 10	- 8	—	—
Azinkoto	21.0	238	4 40 _k	0	8 31	+ 5	—	—
Giran	21.8	238	4 48 _k	- 1	8 48	+ 6	—	—
Taihoku	21.8	238	4 48	- 1	8 40	- 2	—	13.9
Karenko	22.4	236	5 16	PP	9 22	SS	—	—
Taityu	22.9	237	4 57	- 3	9 40	SS	—	—
Arisan	23.3	236	4 18	-46	8 27	-43	—	—
Taito	23.6	235	5 5	- 1	9 17	+ 1	—	—
Tainan	24.0	236	5 9	- 1	9 24	+ 1	—	—
Hokoto	24.1	238	4 59	-12	9 20	- 5	—	—
Takao	24.3	235	5 40 _k	+27	9 56	+28	—	—
Kosyun	24.4	233	5 10	- 4	9 41	+11	—	—
Hong Kong	28.6	243	5 49 _a	- 4	10 34	- 8	13.3	15.8
Manila	30.1	223	i 6 3 _a	- 3	10 51	-15	—	—
Palau	31.7	194	5 48	-32	10 52	-39	—	—
Phu-Lien	35.0	250	i 6 47	- 2	i 12 15	- 6	15.9	23.0
Semipalatinsk	44.4	307	i 8 3	- 5	e 14 37	- 4	30.0	—
College	47.7	32	e 8 40	+ 6	e 15 23	- 6	e 23.2	—
Calcutta	E. 48.1	267	8 41	+ 4	15 33	- 1	23.1	31.5
Almata	48.2	298	8 33	- 5	15 34	- 2	—	26.5
Frunse	50.0	298	e 9 6	+15	e 15 53	- 8	25.4	—
Andijan	52.2	295	9 7	- 1	—	—	28.9	—
Dehra Dun	52.3	281	8 47	-22	16 27	- 6	26.8	32.9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Medan	52.5	239	9 1	- 9	i 16 26	- 9	e 24.9	—
Tchimkent	53.6	299	e 9 20	+ 2	e 17 10	+20	—	—
Honolulu	54.0	89	9 29	+ 8	e 16 17	-39	—	—
Tashkent	54.2	297	i 9 20	- 3	i 16 52	- 6	27.1	—
Sitka	55.0	41	e 9 37	+ 8	17 7	- 2	e 26.8	—
Batavia	55.1	224	i 9 28	- 2	i 17 8	- 3	e 32.9	—
Soengei Langka	55.4	226	9 21	-11	17 21	+ 6	e 29.9	—
Samarkand	56.4	296	e 9 35	- 4	17 25	- 3	—	29.9
Hyderabad	58.7	267	9 56	+ 1	17 56	- 3	26.9	36.9
Bombay	62.2	272	i 10 16	- 4	18 37	- 8	29.9	37.7
Kodaikanal	E. 63.7	262	i 10 23	- 7	i 18 56	- 8	i 29.7	34.1
Colombo	63.9	257	10 24	- 7	18 58	- 8	31.7	41.0
Seattle	66.1	57	e 11 4	+18	19 35	+ 1	e 27.1	—
Moscow	66.2	323	i 10 43	- 4	i 19 29	- 6	31.9	36.4
Pulkovo	67.0	329	i 10 45	- 7	19 34	-11	33.9	38.3
Baku	67.6	304	i 10 52	- 4	20 14	PS	—	—
Apia	67.8	129	e 10 42	-15	e 19 44	-10	e 30.2	—
Grozny	68.7	309	i 11 1	- 2	e 19 59	- 6	—	—
Piatigorsk	69.9	310	11 5	- 5	e 20 1	-19	30.9	—
Tiflis	70.1	307	i 11 6	- 5	20 13	- 9	28.9	44.6
Scoresby Sund	70.2	354	11 16	+ 4	—	—	37.9	—
Ukiah	70.2	55	e 11 1	-11	20 17	- 7	e 31.9	—
Erevan	71.2	306	11 18	0	20 38	+ 3	35.6	—
San Francisco	71.4	56	e 11 3	-16	—	—	—	—
Berkeley	71.5	56	e 11 9	-11	e 20 13	-26	—	—
Upsala	71.7	334	i 11 15	- 6	i 20 31	-10	e 30.9	44.5
Branner	71.8	56	e 11 14	- 8	i 20 20	-23	—	—
Saskatoon	71.8	37	e 11 12	-10	i 20 30	-13	—	—
Sotchi	72.1	311	i 11 18	- 5	e 20 37	- 9	39.4	—
Lick	72.2	56	e 11 19	- 5	e 20 37	-10	—	—
Riverview	72.6	171	e 11 17	- 9	i 20 40	-12	e 34.4	38.4
Sydney	72.7	171	e 9 27	-120	i 20 47	- 6	46.7	55.1
Butte	73.2	43	e 11 27	- 3	e 20 45	-14	30.9	—
Adelaide	73.3	182	i 11 21	-10	i 20 43	-17	—	42.3
Bozeman	73.6	44	—	—	20 56	- 8	e 31.1	—
Fresno	N. 73.7	55	e 11 33	0	—	—	—	—
Theodosia	73.7	314	i 11 29	- 4	i 20 57	- 8	37.4	—
Perth	74.3	202	11 37	+ 1	i 21 2	-10	34.9	38.0
Simferopol	74.4	315	i 11 33	- 4	i 21 2	-11	35.9	—
Tinemaha	74.5	54	e 11 36	- 1	e 21 6	- 8	—	—
Yalta	74.7	314	i 11 33	- 6	i 21 1	-16	28.9	—
Sebastopol	75.0	315	i 11 36	- 4	e 21 8	-12	36.9	—
Santa Barbara	75.1	57	e 11 39	- 2	e 21 11	-10	—	—
Bergen	75.1	339	i 11 38k	- 3	21 12	- 9	e 34.0	40.0
Haiwee	75.3	55	e 11 37	- 5	e 21 10	-14	—	—
Melbourne	76.2	176	i 12 27	+40	21 17	-17	32.6	39.4
Lemburg	76.3	324	e 11 36	-12	e 21 58	+23	e 39.1	51.4
Pasadena	76.3	56	e 11 40	- 8	i 21 22	-13	e 31.1	—
Mount Wilson	76.4	56	i 11 42	- 6	e 21 22	-14	—	—
Czernowitz	76.5	321	i 11 26	-23	21 12	-25	35.0	48.6
Copenhagen	76.7	333	e 11 45	- 5	21 29	-10	32.9	—
Riverside	77.0	56	e 11 47	- 5	e 21 38	- 5	—	—
La Jolla	77.7	57	e 11 52	- 4	e 21 37	-14	—	—
Bucharest	79.1	318	e 11 58	- 5	21 54	-12	37.6	50.3
Hamburg	79.2	333	i 11 58a	- 6	i 21 57	-10	e 33.9	44.0
Budapest	80.3	324	i 12 8k	- 1	22 10	- 9	42.4	51.4
Prague	80.3	328	i 12 5a	- 4	22 7	-12	e 33.9	49.9
Ksara	80.5	305	i 12 3a	- 7	i 22 9	-12	38.6	43.6
Jena	80.7	330	e 12 6	- 6	e 22 10	-13	e 34.9	43.9
Göttingen	80.8	332	i 12 7k	- 5	22 49	+25	e 38.9	51.9

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Vienna	80.9	326	i 12 10 _a	- 3	e 22 27	+ 2	e 40.4	53.9
Cheb	81.1	330	e 12 10	- 4	e 22 18	- 9	e 39.9	44.9
Edinburgh	81.2	341	i 12 9	- 5	i 22 18	-10	35.9	51.9
Belgrade	81.6	322	i 12 11 _a	- 5	i 22 24	- 9	e 38.6	45.2
Sofia	81.7	319	i 12 14	- 3	e 22 21	-13	e 37.1	52.0
Durham	81.8	339	12 14	- 3	22 24	-11	—	51.9
De Bilt	82.2	334	i 12 14 _a	- 5	22 25	-14	e 37.9	43.9
Graz	82.2	326	i 12 11	- 8	i 22 25	-14	e 38.9	53.0
Tucson	82.3	54	e 12 19	- 1	e 22 29	-11	e 34.1	—
Stonyhurst	82.9	340	12 20	- 3	i 22 45	- 1	36.9	42.2
Zagreb	82.9	325	i 12 18 _a	- 5	i 22 34	-12	e 37.9	46.0
Bidston	83.4	340	i 12 24	- 1	i 22 46	- 5	e 34.9	44.4
Laibach	83.4	326	i 14 14	?	i 22 43	- 8	e 53.8	—
Stuttgart	83.4	330	i 12 22	- 3	i 22 40	-11	e 38.9	52.6
Uccle	83.4	335	i 12 20 _a	- 5	i 22 39	-12	36.9	40.8
Strasbourg	84.1	331	i 12 23 _a	- 6	i 22 44	[- 8]	e 34.9	50.4
Kew	84.4	337	i 12 27 _a	- 3	22 50	[- 5]	e 37.9	42.5
Oxford	84.4	338	i 12 23	- 7	i 22 47	[- 8]	e 33.2	52.3
Rathfarnham Castle	84.4	341	i 12 31	+ 1	i 22 54	[- 1]	35.3	45.4
Chur	84.8	330	e 12 26	- 6	e 22 47	[-11]	—	—
Zurich	84.8	331	e 12 26 _a	- 6	e 22 37	[-21]	—	—
Basle	85.0	331	e 12 28	- 5	e 22 52	[- 7]	—	—
Padova	85.0	327	i 12 21	-12	i 22 40	[-19]	e 43.9	56.9
Wellington	85.0	155	12 38	+ 5	22 44	[-15]	39.9	44.9
Des Moines	85.4	37	e 12 33	- 2	e 22 50	[-12]	e 43.0	—
Neuchatel	85.7	331	e 12 30	- 7	e 22 54	[-10]	—	—
Besançon	85.8	331	i 12 32	- 5	e 22 49	[-16]	e 38.9	—
Paris	85.8	334	i 12 34 _a	- 3	e 23 23	+ 7	28.9	55.9
Helwan	86.0	304	12 29	- 9	22 57	[- 9]	—	54.4
Madison	86.3	34	e 12 33	- 7	e 23 0	[- 8]	—	—
Christchurch	86.4	157	e 12 36 _k	- 4	i 22 53	[-16]	40.2	—
Florence	86.6	326	12 37	- 4	22 57	[-14]	—	—
Jersey	86.9	337	i 12 37	- 6	i 23 12	[- 1]	37.7	54.1
Capodimonte	87.5	323	e 12 53	+ 8	e 23 15	[- 2]	43.9	56.9
Chicago	88.1	34	e 12 39	- 9	e 23 3	[-18]	e 36.0	—
Florissant	89.2	37	i 12 48	- 6	e 23 15	[-13]	—	45.0
Ann Arbor	89.4	31	i 12 57	+ 2	i 23 33	[+ 4]	e 41.8	49.8
Marseilles	89.4	330	i 12 26	-29	22 57?	[-32]	e 37.0	45.9
Ottawa	89.7	25	12 51	- 5	23 37	[+ 6]	e 39.9	—
Little Rock	91.3	42	e 13 0	- 3	e 23 52	[+12]	e 40.4	—
Vermont	91.4	24	e 12 55	- 9	e 23 26	[-15]	e 35.7	—
Bagnères	91.6	333	e 17 9	PP	e 23 30	[-12]	e 34.9	51.9
Carloforte	91.6	325	12 15	-50	34 15	SSS	—	—
Barcelona	92.3	331	e 13 10	+ 2	e 23 27	[-19]	e 37.4	51.8
East Machias	92.8	20	e 16 55	PP	e 23 31	[-18]	e 43.1	—
Pennsylvania	93.0	29	e 16 43	PP	e 24 33	+ 9	e 53.9	—
Tortosa	93.4	331	e 16 4	PP	e 26 19	?	e 40.9	55.0
Oak Ridge	93.7	23	i 13 13	- 1	e 24 14	-16	e 46.9	—
Weston	93.8	23	i 13 11	- 4	—	—	—	—
Philadelphia	94.7	27	e 19 5	PPP	i 23 47	[-12]	i 49.1	—
Toledo	95.8	334	i 13 23	- 1	23 56	[- 9]	43.9	55.7
Algiers	95.9	327	13 18	- 7	24 14	[+ 9]	43.9	51.9
Columbia	97.5	34	—	—	e 24 1	[-13]	e 44.1	—
Almeria	98.0	332	e 13 22	-12	e 24 12	[- 4]	e 46.0	58.3
Granada	98.1	333	13 30	- 5	e 24 47	{+ 8}	—	—
Tacubaya	98.7	57	i 17 43	PP	—	—	e 47.7	—
San Fernando	99.6	335	e 13 41	- 1	i 24 3	[-20]	46.0	—
Tananarive	104.9	258	e 18 51	PP	24 37	[-12]	43.7	60.1
San Juan	117.5	30	e 17 9	?	e 36 0	SS	e 47.8	—
Cape Town	E. 134.8	258	i 21 46	PP	i 39 59	SS	e 63.6	67.9
	N. 134.8	258	i 21 45	PP	i 39 53	SS	e 64.7	75.4
Huancayo	137.8	62	e 19 9	[-10]	28 48	{-23}	65.2	—
La Paz	145.8	57	19 32	[- 4]	30 4	{+ 5}	68.0	80.4
Santiago	153.3	89	e 20 35	{+21}	—	—	—	—
La Plata	163.8	84	19 33	[-25]	—	—	68.9	—
Rio de Janeiro	N. 163.9	17	c 19 57	[- 1]	i 31 27	{-13}	i 44.6	—

For Notes see next page.

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NOTES TO NOV. 2d. 20h. 46m. 3s.

Additional readings :—

Kobe $i = +1m.50s.$ and $+2m.22s.$
Sumoto $e = +2m.3s.$, $SEN = +2m.51s.$
Toyooka SEZ = $+2m.48s.$
Hukuoka B iPE = $+2m.28s.$
Zi-ka-wei PPN = $+4m.21s.$, PPPN = $+4m.26s.$, PPPPN = $+4m.30s.$,
iZ = $+4m.46s.$, iN = $+4m.54s.$, iZ = $+5m.7s.$, iN = $+5m.23s.$, iZ = $+5m.42s.$,
 $+6m.33s.$, iE = $+6m.44s.$, iZ = $+6m.57s.$, SSZ? = $+7m.57s.$, SSSZ? =
 $+8m.10s.$, iN = $+8m.26s.$, iZ = $+9m.18s.$, iN = $+9m.58s.$, iE = $+10m.6s.$,
iN = $+10m.37s.$, iZ = $+10m.57s.$, iE = $+11m.37s.$
Nanking PP = $+4m.42s.$, iZ = $+10m.2s.$
Taihoku SE = $+8m.46s.$
Hong Kong ? = $+6m.5s.$, PP = $+6m.46s.$, P_cP = $+8m.44s.$, SS = $+11m.47s.$,
S_cS = $+16m.56s.$
Phu-Lien PP = $+8m.7s.$
College ePPP = $+11m.2s.$, S = $+15m.37s.$, iS = $+15m.50s.$, SS = $+18m.31s.$
Frunse e = $+10m.0s.$
Medan iPE = $+9m.10s.$
Honolulu eP = $+9m.33s.$, i = $+10m.10s.$, PP = $+12m.11s.$, PPP = $+12m.53s.$,
e = $+13m.40s.$, eS = $+16m.47s.$, S = $+16m.55s.$, PS = $+18m.9s.$, SS =
 $+22m.0s.$
Sitka iP = $+9m.41s.$, SS = $+20m.54s.$, SSS = $+23m.27s.$
Bombay P_cPEN = $+11m.4s.$, PSEN = $+19m.3s.$, S_cSEN = $+20m.1s.$, SSEN =
 $+22m.49s.$
Kodaikanal iPPE = $+12m.34s.$, iPPPE = $+14m.17s.$, iPSE = $+19m.14s.$, iSSE =
 $+23m.1s.$, iSSSE = $+25m.9s.$
Seattle e = $+11m.42s.$, eSS = $+24m.21s.$
Apia ePP = $+12m.44s.$, eSS = $+23m.30s.$, e = $+28m.4s.$ = SSSS + 25s.
Tiflis ePPE = $+13m.45s.$, ePPPEN = $+15m.42s.$, eN = $+21m.7s.$, SSEN =
 $+25m.23s.$
Ukiah eSS = $+24m.5s.$ and $+24m.34s.$, eSSS = $+27m.46s.$, and $+28m.19s.$
Berkeley eZ = $+11m.13s.$, eZ = $+11m.15s.$, e = $+11m.17s.$, i = $+11m.27s.$, eE =
 $+11m.31s.$, eN = $+11m.35s.$, e = $+20m.20s.$, eE = $+20m.30s.$, iN =
 $+20m.33s.$
Upsala SS = $+25m.50s.$
Riverview eL_cE = $+30.4m.$
Sydney SS = $+29m.27s.$, SSS = $+36m.21s.$
Butte ePP = $+14m.18s.$
Adelaide e = $+12m.56s.$, i = $+16m.23s.$, iPS = $+21m.29s.$, i = $+22m.27s.$, iSS? =
 $+25m.40s.$, i = $+28m.53s.$ and $+29m.6s.$
Bozeman ePS = $+21m.10s.$
Perth P_cP = $+11m.57s.$, PP = $+14m.54s.$, PPP = $+16m.37s.$, PS = $+21m.37s.$,
? = $+25m.22s.$, SS = $+25m.57s.$, ? = $+30m.37s.$
Czernowitz PPN = $+11m.32s.$, PPPN = $+16m.19s.$
Pasadena iPZ = $+11m.46s.$
Melbourne SS = $+26m.1s.$, i = $+29m.37s.$ = SSS + 13s.
Copenhagen e = $+12m.5s.$, iPP = $+14m.38s.$, PPP = $+16m.23s.$, SS = $+26m.15s.$,
SSS = $+29m.57s.$
Bucharest PPE = $+15m.1s.$, PPN = $+15m.4s.$, PSEN = $+22m.29s.$, SSN =
 $+26m.57s.$
Hamburg eSSNZ = $+27m.57s.$
Budapest iN = $+12m.10s.$, P_cPE = $+12m.16s.$, iN = $+12m.29s.$ and $+12m.43s.$,
iE = $+12m.49s.$, PPN = $+13m.6s.$, PPE = $+15m.14s.$, eE = $+15m.37s.$,
S_cSE = $+22m.37s.$, PSN = $+22m.41s.$, PSE = $+22m.51s.$, SSN = $+23m.45s.$,
SSE = $+27m.37s.$, iN = $+27m.37s.$, iE = $+31m.27s.$
Prague ePP = $+15m.6s.$, ePS = $+22m.39s.$
Ksara iPS = $+22m.55s.$
Jena eEW = $+27m.57s.$, eNS = $+28m.17s.$, eEN = $+30m.45s.$
Göttingen iPP = $+15m.6s.$, ePPPN = $+17m.15s.$, iEN = $+22m.13s.$, iPS =
 $+23m.28s.$, eSSN = $+27m.57s.$, eSSSN = $+31m.33s.$
Vienna PP = $+15m.10s.$, SS = $+27m.49s.$
Edinburgh i = $+13m.4s.$, $+19m.0s.$, $+22m.51s.$, $+25m.6s.$, $+27m.49s.$,
 $+31m.19s.$, $+34m.0s.$, and $+35m.27s.$
Belgrade iP = $+12m.12s.$, iPPNE = $+15m.20s.$, iNW = $+19m.39s.$, iSNW =
 $+22m.34s.$, iNE = $+22m.47s.$
Sofia PSNE = $+22m.50s.$
De Bilt iPPZ = $+15m.22s.$, eSS = $+28m.2s.$
Tucson e = $+21m.43s.$, ePS = $+23m.24s.$, eSS = $+27m.37s.$ and $+28m.17s.$,
eSSS = $+31m.42s.$
Stonyhurst i = $+23m.0s.$, SS = $+28m.0s.$
Zagreb i = $+12m.30s.$, iZ = $+12m.39s.$, iPP = $+15m.33s.$, iZ = $+22m.41s.$, eZ =
 $+23m.34s.$, e = $+28m.57s.$? and $+32m.21s.$
Bidston i = $+12m.46s.$, iPP = $+15m.41s.$, i = $+23m.8s.$, $+24m.5s.$, and $+29m.32s.$
Lalbach iNW = $+15m.20s.$ and $+17m.14s.$ = PPP - 2s.

Continued on next page.

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Stuttgart $iP_cPZ = +12m.43s.$, $ePP = +15m.43s.$, $iPS = +23m.47s.$, $e = +29m.33s.$, $eSSS = +32m.30s.$
 Uccle $i = +12m.44s.$, $iPPN = +15m.36s.$, $iPPPN = +17m.27s.$, $iN = +19m.3s.$, $iSSE = +28m.5s.$
 Strasbourg $iZ = +12m.45s.$, $+12m.59s.$, and $+14m.34s.$, $PP = +15m.43s.$, $PPP = +17m.59s.$, $ePPPP = +18m.29s.$, $eSKS = +22m.1s.$, $iPS = +22m.59s.$, $i = +24m.59s.$, $SS = +28m.57s.?$, $SSS = +31m.57s.?$
 Kew $iZ = +12m.49s.$ and $+14m.24s.$, $iPPNZ = +15m.42s.$, $iScS = +23m.8s.$, $iEN = +24m.6s.$, $iSSE = +28m.36s.$, $iNZ = +29m.23s.$, $iSSSE = +31m.38s.$, $eZ = +33m.28s.$
 Rathfarnham Castle $i = +12m.43s.$, $P? = +15m.44s.$, $i = +28m.7s.$
 Chur $e = +15m.41s. = PP - 3s.$
 Wellington $pP? = +12m.51s.$, $PP = +15m.44s.$, $ScS? = +23m.6s.$, $PPS = +23m.52s.$, $SS = +28m.22s.$, $i = +28m.47s.$, $SSS = +30m.57s.?$ $i = +34m.55s.$ (May be SSSS or L_q).
 Helwan $pP = +12m.52s.$, $PP = +15m.53s.$, $sS = +23m.27s.$, $i = +30m.2s.$
 Madison $eSS = +28m.44s.$, $e = +35m.59s.$
 Christchurch $iP = +12m.46s.$, $iPS = +24m.3s.$
 Jersey $PP? = +15m.29s.$, $PPP? = +17m.16s.$, $SKKS? = +23m.18s.$, $PS? = +24m.4s.$, $SS = +29m.7s.$, $SSS = +32m.35s.$
 Chicago $eP = +13m.1s.$, $SKS = +23m.5s.$, $iS = +23m.23s.$, $S = +23m.41s.$, $PS = +24m.53s.$, $eSS = +29m.13s.$ and $+29m.39s.$
 Florissant $ipPZ = +13m.6s.$, $eSKKSE = +23m.35s.$, $iSE = +23m.36s.$, $isS = +24m.10s.$, $eEZ = +40m.3s.$, $eGEZ = +41m.2s.$
 Ann Arbor $ePP = +16m.45s.$, $iSKS = +23m.15s.$, $iPS = +25m.15s.$, $eSSN = +30m.9s.$, $eSSSN = +34m.9s.$
 Marseilles $iSKSE = +22m.29s.$, $eN = +22m.50s.$, $iS?N = +23m.2s.$, $PSE? = +23m.21s.$, $eN = +23m.27s.$
 Ottawa $SS = +29m.39s.$, $eE = +36m.27s.$; $T_0 = 20h.46m.6s.$
 Little Rock $ipPEN = +13m.18s.$, $iPPE = +15m.48s.$, $eSEN = +24m.11s.$, $eN = +24m.19s.$
 Vermont $ePP = +17m.55s.$, $iS = +23m.55s.$, $e = +27m.40s.$, $eSS = +30m.27s.$
 Bagnères $eS = +23m.50s.$
 East Machias $iS = +24m.8s.$, $eSS = +30m.22s.$, $SS = +30m.55s.$, $e = +37m.43s.$
 Oak Ridge $ipPZ = +17m.4s.$, $iPS = +25m.32s.$
 Philadelphia $iS = +21m.57s.$, $e = +23m.50s.$, $iS = +24m.20s.$, $eSS = +30m.2s.$, $eSS = +30m.57s.$
 Toledo $ipPZN = +17m.17s.$, $PPPN = +19m.19s.$, $SKKSN = +24m.18s.$, $SKKKSEN = +24m.24s.$, $SN = +24m.34s.$, $PSN = +25m.59s.$, $PPSN = +26m.32s.$, $iSSN = +31m.9s.$, $PKP,PKPE = +38m.36s.$, $GN = +39m.57s.$, $iSKKKS,E = +41m.38s.$
 Algiers $ePP = +17m.5s.$, $ePPP = +19m.9s.$, $SS = +41m.54s.$
 Columbia $eSS = +31m.29s.$
 Almeria $PP = +18m.23s.$
 San Fernando $PP = +17m.48s.$, $PS = +26m.40s.$, $SS = +32m.3s.$, $SSS = +35m.49s.$
 Tananarive $PPS = +27m.50s.$, $SS = +32m.58s.$
 Cape Town $i = +22m.11s.$, $iSKP = +22m.49s.$, $iPPP = +24m.44s.$, $iN = +26m.46s.$, $iE = +26m.49s.$, $iE = +28m.34s.$, and $+39m.32s.$, $iN = +39m.36s.$ and $+44m.30s.$, $iE = +45m.56s.$
 Huancayo $e = +19m.28s.$, $+20m.23s.$, and $+21m.49s.$, $ePP = +22m.15s.$, $SKP = +22m.50s.$, $eSS = +39m.53s.$, $SS = +40m.16s.$, $e = +44m.31s.$, $SSS = +45m.49s.$, $eSSS = +46m.19s.$, $e = +49m.3s.$
 La Paz $iPKP,E = +19m.40s.$, $iPKP,N = +19m.44s.$, $iSPKPE = +21m.50s.$, $PPN = +23m.2s.$, $SKSP = +33m.26s.$, $SSN = +41m.58s.$, $SSS = +47m.33s.$, $SSSS = +51m.13s.$, $L_q = +61.0m.$
 Rio de Janeiro $iPPN = +24m.20s.$

Nov. 2d. Readings also at 0h. (Tiflis and San Javier), 3h. (near San Javier and Santiago), 4h. (near Manila), 5h. (near Almata and Frunse), 6h. (Medan, Baku, Tiflis, Tashkent, Helwan, and Ksara), 9h. (Baku, Tashkent, Ksara, Helwan, Moscow, Pulkovo, Copenhagen, Cheb, Strasbourg, Stuttgart, Paris, Marseilles, Granada, La Paz, Rio de Janeiro, near Hukuoka and Hukuoka B), 12h. (Frunse, near Andijan, and Samarkand), 14h. (Tananarive), 15h. (Batavia), 17h. (College), 21h. (near San Javier), 22h. (Nagoya, Sumoto, and near Mizusawa).

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Nov. 3d. 4h. 43m. 26s. Epicentre 59°·5N. 153°·0E. N.3.

$$A = -.4522, B = +.2304, C = +.8616; \quad \delta = -8;$$

$$D = +.454, E = +.891; \quad G = -.768, H = +.391, K = -.508.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sapporo	18.0	209	4 24	+17	—	—	—	—
Vladivostok	20.8	227	i 4 33	- 5	8 21	- 1	10.2	14.0
Mizusawa	21.7	206	e 4 47	- 1	e 8 30	-10	—	—
Kakioka	24.7	208	5 11	- 6	—	—	—	—
Maebasi	24.8	210	5 22	+ 4	—	—	—	—
Oiwake	25.0	210	5 22	+ 2	9 46	+ 5	—	—
Tokyo	25.3	205	4 52	-31	—	—	—	—
Misima	26.1	207	5 26	- 4	—	—	—	—
Keizyo	27.5	229	e 11 55	S	(11 55)	SSSS	—	—
Husan	29.0	224	—	—	e 11 2	+14	—	—
Chiufeng	30.1	247	6 7	+ 1	e 11 0	- 6	—	19.3
Zi-ka-wei	z. 35.3	231	e 6 48	- 4	—	—	21.2	23.5
Nanking	35.6	235	e 6 57	+ 3	12 26	- 4	18.3	21.6
Semipalatinsk	40.5	291	13 49	S	(13 49)	+ 5	—	—
Sverdlovsk	44.8	309	—	—	i 15 7	+20	20.6	25.0
Hong Kong	46.2	233	13 47	S	(13 47)	-80	—	27.2
Tashkent	52.4	290	7 30	?	—	—	—	22.2
Pulkovo	52.7	329	6 39	?	—	—	30.4	31.0
Calcutta	N. 57.9	260	—	—	e 17 46	- 2	—	—
Santa Barbara	z. 59.5	73	i 10 3	+ 2	—	—	—	—
Mount Wilson	z. 60.5	72	i 10 10	+ 2	—	—	—	—
Pasadena	z. 60.5	72	e 10 9	+ 1	—	—	—	—
Baku	61.9	303	e 10 42	+24	18 57	+16	30.2	38.3
Tiflis	62.9	307	e 10 26	+ 1	e 19 5	+11	32.1	37.5
Yalta	64.6	316	—	—	i 24 19	SS	e 29.2	—
Tucson	65.6	67	e 10 43	+ 1	—	—	e 38.4	—
Bombay	68.8	272	—	—	e 19 34?	-33	—	42.1
Ksara	73.3	309	e 14 14	PP	e 24 41	SS?	41.1	—
Granada	81.4	342	—	—	e 30 19	SSSS	54.6	—

Additional readings :—

Keizyo eSE = +14m.25s.
 Nanking PPN = +8m.12s.
 Semipalatinsk e = +18m.45s., e = +24m.1s.
 Sverdlovsk e = +18m.26s. =SSS - 14s.
 Hong Kong S? = +18m.38s.
 Tashkent e = +10m.35s.
 Pasadena iPZ = +10m.16s.
 Tiflis eSSS = +26m.9s.

Long waves were also recorded at Tchimkent, Frunse, Almata, Padova, De Bilt, Hyderabad, Cheb, Moscow, Upsala, Uccle, Bozeman, Strasbourg, Paris, Simferopol, Grozny, Copenhagen, Stuttgart, Prague, San Fernando, Hamburg, Kodaikanal, and Phu-Lien.

Nov. 3d. Readings also at 0h. (Mizusawa), 1h. (Mizusawa, Vladivostok, and Tashkent), 2h. (Frunse and near Andijan), 3h. (Mount Wilson and Pasadena), 5h. (Oak Ridge, St. Louis, Little Rock, Florissant, and Vladivostok), 6h. (Baku, Chiufeng, Sverdlovsk, Tiflis, Ksara, Mount Wilson, Pasadena, and Riverside), 10h. (Tacubaya), 11h. (Alicante and Balboa Heights), 12h. (near Mizusawa (2)), 13h. (near Santiago and San Javier), 14h. (near Apia), 16h. (Ksara), 17h. (near Tananarive), 20h. (Manila and Nanking), 21h. (Tiflis, Malabar, Medan, Soengel Langka, Kew, near Batavia, and near Apia), 22h. (Mizusawa and near Berkeley (2)).

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Nov. 4d. 7h. 24m. 50s. Epicentre $0^{\circ}0' 98^{\circ}3'E$. (as on 1936 March 17d.). X.

$$A = -.1444, B = +.9895, C = .0000; \quad \delta = -4;$$

$$D = +.990, E = +.144; \quad G = .000, H = .000, K = -1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	3.6	8	i 0 53	+ 2	—	—	—	—
Colombo	19.6	291	4 13	-12	—	—	—	11.6
Phu-Lien	22.3	22	—	—	8 10	-42	—	—
KodaiKANAL	E. 23.1	297	e 5 10?	+ 8	—	—	—	—
Manila	26.8	56	5 58	+22	11 36	SSSS	16.2	19.2
Hong Kong	27.1	34	5 17	-22	9 30	-47	—	19.3
Bombay	31.4	308	e 4 10?	?	e 11 10?	-16	—	21.9
Agra	E. 33.4	326	—	—	e 11 43	-14	—	—
Nanking	37.4	29	e 7 10	0	e 13 18	+21	e 18.3	25.6
Chiufeng	43.2	20	i 7 57a	- 1	e 14 29	+ 5	—	28.2
Tashkent	48.9	331	e 2 10	?	i 15 38	- 7	e 23.4	34.8
Baku	59.6	318	e 2 12	?	e 12 6	PP	e 28.2	—
Tiflis	63.6	317	e 10 24	- 5	e 18 52	-10	e 35.2	—
Sverdlovsk	64.3	338	—	—	e 19 27	+16	32.2	38.4
Ksara	67.4	306	e 10 52	- 2	e 19 43	- 7	—	37.2
Sotchi	67.8	318	—	—	i 18 41	-73	—	—

Additional readings:—

Medan eP = +3m.9s.

Phu-Lien e = +13m.20s.

Nanking iE = +22m.4s.

Tashkent e = +16m.44s. and +21m.10s.

Ksara ePS = +20m.12s.

Long waves were also recorded at Vladivostok and Perth.

Nov. 4d. 13h. 44m. 58s. Epicentre $5^{\circ}0'S. 132^{\circ}0'E$. (as on 1934 April 27d.). X.

$$A = -.6666, B = +.7403, C = -.0872; \quad \delta = 0;$$

$$D = +.743, E = +.669; \quad G = +.058, H = -.065, K = -.996.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	4.0	289	i 1 5	P*	i 1 52	+10	—	—
Manila	22.4	331	i 4 57a	+ 2	i 9 2	+ 9	—	—
Batavia	25.1	266	5 20	- 1	i 9 42	- 1	—	—
Perth	30.9	208	11 2	S	(11 2)	-16	—	—
Hong Kong	32.4	328	11 32	S	(11 32)	- 9	—	18.7
Riverview	33.9	151	e 14 34	SS	—	—	—	22.1
Sydney	33.9	151	—	—	e 16 38	ScS?	18.4	19.5
Melbourne	34.9	162	—	—	i 12 23	+ 3	i 16.4	—
Nanking	39.1	341	7 25	+ 1	13 21	- 1	—	—
Adelaide	41.0	172	e 5 31	?	e 11 5	?	e 14.5	17.2
Chiufeng	47.4	343	i 8 31	- 1	15 20	- 4	—	—
Vladivostok	48.1	0	—	—	e 15 35	+ 1	19.6	—
KodaiKANAL	E. 56.4	286	e 9 2?	-37	—	—	—	—
Bombay	63.0	294	e 10 2?	-23	—	—	—	—
Almata	69.2	320	e 11 19	+13	—	—	—	—
Frunse	70.5	319	e 11 13	- 1	—	—	—	—
Semipalatinsk	71.0	328	—	—	e 20 24	- 9	—	—
Andijan	71.1	316	e 11 16	- 1	—	—	—	—
Tashkent	73.4	316	i 11 31	0	20 55	- 6	e 34.0	45.6
Samarkand	74.4	313	e 11 35	- 2	—	—	—	—
Sverdlovsk	84.2	329	i 12 39	+10	22 54	[+ 1]	35.0	—
Tiflis	91.2	312	e 13 2	- 1	e 24 1	- 6	—	—
Ksara	97.9	302	e 13 36	+ 2	26 26	PS	—	—
La Paz	N. 150.7	137	e 20 3	{+ 1}	—	—	—	—

Additional readings:—

Hong Kong S? = +13m.5s.

Riverview eSN = +17m.46s., eSE = +18m.1s.

Sverdlovsk iPP = +15m.52s.

Ksara ePP = +17m.36s., ePPS = +26m.58s.

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Nov. 4d. Readings also at 0h. (near Almata), 2h. (Chiufeng, Nanking, Vladivostok, Baku, Tiflis, Tashkent, Sverdlovsk, and Ksara), 5h. (Mount Wilson, Pasadena, and near Apia), 6h. (Mount Wilson, Pasadena, Sebastopol, Ksara, near Andijan, and near Apia), 8h. (Sotchi), 9h. (Batavia, Medan (2), Colombo, Nanking, Hong Kong, Manila, Bombay, Phu-Lien, Kodaikanal, Baku, Sverdlovsk, Ksara, and San Javier), 10h. (near Santiago and San Javier), 11h. (Sotchi), 12h. (Almeria), 16h. (near Neuchatel), 19h. (Mount Wilson, Pasadena, La Paz, Rio de Janeiro, Granda, De Bilt, Strasbourg, Ksara, and Tiflis), 20h. (Baku, Sverdlovsk, Tashkent, Copenhagen, Paris, Stuttgart, and near Medan), 23h. (Tashkent, Frunse, Samarkand, and near Andijan).

Nov. 5d. 7h. 37m. 8s. Epicentre $23^{\circ}7'N$. $141^{\circ}3'E$. (as on 1934 April 30d.). R.3.

$$A = -.7146, B = +.5725, C = +.4019; \quad \delta = -7;$$

$$D = +.625, E = +.780; \quad G = -.314, H = +.251, K = -.916.$$

		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya		12.1	342	e 1 38	-72	3 9	?	—	—
Kobe	E.	12.2	335	e 1 38	-73	—	—	—	5.7
Toyooka	N.	13.1	336	1 44	?	—	—	e 4.2	8.1
Hukuoka B		13.7	319	e 2 58	-13	e 5 56	+12	—	—
Mizusawa		15.4	359	3 35	+1	5 49	-35	—	—
Zi-ka-wei		19.2	298	4 22	+1	—	—	—	15.6
Vladivostok		20.9	340	e 4 43	+4	—	—	8.1	13.4
Manila		21.3	248	4 41	-2	8 16	-16	—	—
Nanking		21.6	298	e 4 52	+6	e 9 4	SS	—	—
Chiufeng		26.8	314	e 5 40	+4	9 25	-47	—	14.2
Tashkent		61.5	306	—	—	e 19 23	+47	e 28.9	38.2
Sverdlovsk		65.3	324	10 35	-6	18 17	-67	31.9	—
Tiflis		79.1	312	12 30	+27	e 20 31	?	39.9	46.9
Santa Barbara	z.	83.7	56	e 12 25	-2	—	—	—	—
Mount Wilson	z.	85.0	55	e 12 32	-1	—	—	—	—
Pasadena	z.	85.0	55	e 12 31	-2	—	—	—	—
Ksara		88.8	307	e 13 32	+40	e 24 25	+40	—	—

Additional readings :—

Zi-ka-wei iZ = +5m.29s.

Pasadena iZ = +12m.43s.

Long waves were also recorded at Hong Kong and Baku.

Nov. 5d. 20h. 46m. 20s. Epicentre $40^{\circ}0'N$. $133^{\circ}0'W$. N.3.

$$A = -.5224, B = -.5602, C = +.6428; \quad \delta = -8;$$

$$D = -.731, E = +.682; \quad G = -.438, H = -.470, K = -.766.$$

		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.
Ferndale		6.7	83	e 2 15	P _s	—	—	—
Berkeley		8.6	101	e 2 0	-2	e 3 32	-7	—
Branner		8.8	103	e 2 6	+1	—	—	—
Lick		9.2	103	e 2 10	0	—	—	—
Fresno	N.	10.8	103	e 2 32	0	—	—	—
Seattle		10.8	42	e 2 32	0	—	—	e 3.9
Santa Barbara	z.	11.9	114	e 3 0	+13	—	—	—
Tinemaha		11.9	99	e 2 43	-4	—	—	—
Haiwee		12.4	103	e 2 51	-3	—	—	—
Mount Wilson		13.2	111	1 3 10	+5	—	—	—
Pasadena		13.2	112	1 3 11	+6	—	—	—
Riverside	N.	13.8	111	e 3 16	+3	—	—	—
La Jolla	z.	14.5	114	1 3 42	+20	—	—	—
Tucson		19.4	107	e 4 23	0	e 7 53	-1	e 9.2

Additional readings :—

Berkeley eZ = +3m.28s., eE = +3m.56s., eZ = +4m.6s., eEN = +4m.38s.

Seattle e = +2m.51s. and +3m.36s.

Long waves were also recorded at other American stations,

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Nov. 5d. Readings also at 0h. (Tashkent, near Balboa Heights, and near Uccle), 1h. (near San Javier), 9h. (Amboina), 11h. (near Hukuoka, Hukuoka B, Phu-Lien, and near Tiflis), 14h. (Branner and Lick), 17h. (Ksara, Tiflis, near Branner, and Lick), 19h. (near Wellington), 20h. (near Malabar), 21h. (near Santiago and San Javier), 22h. (Medan and near Samarkand), 23h. (Bombay, near Kobe, Sumoto, Toyooka, and near Branner).

Nov. 6d. 20h. 27m. 12s. Epicentre $28^{\circ}5N$. $56^{\circ}8E$. N.3.

$$A = +.4812, B = +.7354, C = +.4772; \quad \delta = +9;$$

$$D = +.837, E = -.548; \quad G = +.261, H = +.399, K = -.879.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	13.1	337	e 3 7	+ 4	5 38	+ 9	7.3	10.7
Samarkand	14.0	34	e 3 15	0	e 7 28	L	(7.5)	—
Erevan	15.4	322	4 36	+62	—	—	e 8.2	—
Tashkent	16.3	35	i 3 40	- 5	6 50	+ 5	e 8.4	10.8
Tiflis	16.4	327	3 43	- 3	e 6 43	- 5	8.8	—
Grozny	17.3	332	4 1	+ 3	—	—	—	—
Andijan	17.7	42	e 4 2	- 1	—	—	e 10.6	—
Ksara	18.6	291	i 4 13	- 1	7 45	+ 7	—	—
Frunse	20.3	42	e 4 35	+ 2	8 29	+17	—	—
Sotchi	20.4	324	4 32	- 2	—	—	—	—
Almata	21.9	43	e 4 53	+ 3	—	—	—	—
Theodosia	23.7	322	e 5 8	+ 1	e 9 11	- 7	—	—
Yalta	24.1	319	e 5 11	0	e 9 18	- 7	—	—
Simferopol	24.4	320	e 5 12	- 2	e 9 22	- 8	—	—
Sebastopol	24.5	319	e 5 14	- 1	e 9 28	- 4	—	—
Sverdlovsk	28.5	5	i 4 59	-53	9 40	-60	13.5	17.0

Additional readings :—

Ksara SS = +10m.14s.

Almata e = +5m.7s.

Theodosia e = +7m.48s.

Nov. 6d. Readings also at 1h. (Grozny), 3h. (near Mizusawa), 6h. (Pasadena, Mount Wilson, and near Apia), 11h. (Mount Wilson, Pasadena, Tinemaha, Tucson, Philadelphia, Tashkent, near Almata, Andijan, Frunse, Toledo, and near Granada), 12h. (Sverdlovsk, Tashkent, Chiufeng, Hong Kong, Nanking, and near Manila), 16h. (Hukuoka B), 17h. (Sverdlovsk, Tashkent (2), Ksara, Perth, Mount Wilson, and Pasadena), 18h. (Sverdlovsk), 19h. (near Samarkand), 20h. (Grozny and near San Javier), 21h. (La Paz, near Grozny, and Tiflis), 22h. (Rio de Janeiro, Mount Wilson, and Pasadena), 23h. (near Mizusawa and Nagoya).

Nov. 7d. 17h. 12m. 49s. Epicentre $36^{\circ}1N$. $140^{\circ}0E$. (as on 1936 Jan. 17d.). X.

$$A = -.6190, B = +.5194, C = +.5892; \quad \delta = +9.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tukubasan	0.1	35	0 4k	+ 3	0 10	+ 7	—
Komaba	0.5	210	0 6	- 1	0 16	+ 3	—
Tokyo, Cent. Met. Obs.	0.5	206	0 0a	- 7	0 18	+ 5	—
Tokyo I.U.	0.5	206	0 8	+ 1	0 18	+ 5	0.3
Mitaka	0.6	220	0 9	0	0 20	+ 5	—
Kamakura	0.9	205	0 13	0	0 25	+ 2	—
Katuura	1.0	165	0 12	- 2	0 24	- 2	—
Nagoya	2.7	249	e 0 22	-17	1 13	+ 4	—

Nov. 7d. Readings also at 0h. (near Andijan), 5h. (La Paz, La Plata, La Jolla, Mount Wilson, Pasadena, Riverside, Haiwee, Santa Barbara, Tinemaha, Nagoya, and near Mizusawa), 6h. (Rio de Janeiro, La Paz, La Plata, Mount Wilson, Pasadena, and near Sumoto), 8h. (near Mizusawa), 12h. (near Oak Ridge), 13h. (Berkeley, Branner, Lick, San Francisco, Fresno, Mount Wilson, and Pasadena), 14h. (La Paz), 16h. (Ksara, La Paz, Rio de Janeiro, near Berkeley, and San Francisco), 19h. (Graz, Mount Wilson, and Pasadena), 22h. (Nanking), 23h. (near Tananarive).

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Nov. 8d. 6h. 33m. 15s. Epicentre 36°·1N. 141°·5E. X.

(close to position given by Tokyo and as on 1931 June 13d.).

A = -·6323, B = +·5030, C = +·5892; $\delta = -3$;
D = +·623, E = +·783; G = -·461, H = +·367, K = -·808.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Tukubasan	1·1	276	0 13	- 3	0 27	- 1	—
Katuura	1·4	229	0 24	+ 4	0 46	+10	—
Tokyo I.U.	1·5	254	0 20	- 1	0 42	S*	—
Komaba	1·5	253	0 20	- 1	0 43	S*	—
Kamakura	1·7	244	0 27	P*	0 54	S _g	—
Susaki	2·5	235	0 40	P*	1 17	S _g	—
Mizusawa	3·0	354	e 0 34	- 9	1 8	- 9	—
Nagoya	3·8	257	e 0 54	0	1 49	S*	2·3
Kobe	5·3	256	—	—	e 2 12	- 3	2·8
Sumoto	5·6	254	e 1 54	P _g	2 41	S*	3·2

Additional readings:—

Mizusawa ePE = +38s.

Kobe eZ = +2m.21s.

Sumoto eZ = +2m.49s.

Nov. 8d. Readings also at 1h. (near Medan), 4h. (near Berkeley, Branner, Lick, and San Francisco), 6h. (Baku, Sverdlovsk, Chiufeng, Tashkent, Tifis (2), and Vladivostok), 7h. (Ksara and near Hukuoka B), 9h. (near Mizusawa and Nagoya), 12h. (Christchurch, Adelaide, Melbourne, Riverview, Hong Kong, Tashkent, Sverdlovsk, Ksara, La Jolla, Mount Wilson, and Pasadena), 13h. (Oak Ridge and near Nagoya), 14h. (Takaka and near Wellington), 15h. (Andijan and Frunse), 22h. (near Granada and Toledo), 23h. (near Tananarive).

Nov. 9d. 6h. 8m. 9s. Epicentre 29°·2N. 131°·3E. (as on Oct. 26d.). X.

A = -·5761, B = +·6558, C = +·4879; $\delta = +1$;
D = +·751, E = +·660; G = -·322, H = +·367, K = -·873.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hukuoka	4·4	350	e 0 58	- 5	2 8	S*	—	2·6
Hukuoka B	4·4	350	e 1 0	- 3	2 5	S*	—	—
Sumoto	6·0	30	1 23	- 2	3 14	S _g	—	3·4
Kobe	E. 6·4	29	e 1 52	P*	e 3 8	S*	—	3·7
	N. or Z. 6·4	29	e 1 40	P*	e 3 2	S*	—	3·8
Toyooka	E. 7·0	25	1 41	+ 2	e 3 36	S _g	—	4·1
	N. 7·0	25	1 43	+ 4	3 34	S _g	—	4·0
	Z. 7·0	25	e 1 36	- 3	3 39	S _g	—	—
Nagoya	7·6	37	e 1 50	+ 2	4 21	S _g	—	—
Zi-ka-wei	Z. 8·8	285	e 2 55	+50	—	—	—	5·0
Keizyo	9·1	338	e 3 59	S	(e 3 59)	+ 8	—	—
Zinsen	9·2	335	e 2 8	- 2	e 4 28	S*	—	—
Nanking	11·1	288	e 2 41	+ 5	e 5 24	S*	e 6·4	7·8
Vladivostok	13·9	2	e 3 33	+19	—	—	6·4	8·6
Chiufeng	16·5	315	e 3 50	+ 2	e 6 52	+ 2	—	11·3
Sverdlovsk	55·5	322	e 9 42	+10	e 21 58	SSS	28·8	36·0

Additional readings:—

Keizyo eSEN = +4m.33s.

Long waves were also recorded at Hong Kong, Kodaikanal, Tashkent, Andijan, Baku, Tifis, Copenhagen, Moscow, Pulkovo, and Phu-Lien.

Nov. 9d. Readings also at 1h. (Ksara), 2h. (near Oak Ridge), 3h. (Arapuni), 4h. (near Oak Ridge), 7h. (Kodaikanal), 8h. (Mount Wilson, Pasadena, Sverdlovsk, Tashkent, Colombo, and Kodaikanal), 9h. (Mount Wilson, Pasadena, Sverdlovsk, Baku, Tashkent, and Ksara), 10h. (near Tifis), 12h. (near Hastings, Tual, and Wellington), 14h. (Bombay, Calcutta, Colombo, Hyderabad, Ksara, Tifis, Kodaikanal, Baku, Sverdlovsk, Tashkent, Mount Wilson, Pasadena, and Tinemaha), 15h. (near Reykjavik), 16h. (near Reykjavik and near Santiago), 20h. (Kodaikanal), 22h. (Tifis, near Reykjavik, and near Wellington), 23h. (near Tifis).

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Nov. 10d. Readings at 0h. (Tiflis), 1h. (Kodaikanal), 2h. (near Tiflis), 3h. (Colombo, Kodaikanal (2), Tashkent, Mount Wilson, Pasadena, and Tinemaha), 4h. (Riverview, Vermont, Andijan, near Samarkand, and near Tiflis), 5h. (Kodaikanal and Riverview), 6h. (Kodaikanal and near Nagoya), 9h. (Medan), 11h. (Kodaikanal, near Medan, and near Hukuoka B), 12h. (Chiufeng, Kodaikanal, Vladivostok, Tiflis, Sverdlovsk, Ksara, Mount Wilson, Pasadena, and Tinemaha), 13h. (Nanking, Bombay, Calcutta, Baku, Pulkovo, Tashkent, Tiflis, Copenhagen, De Bilt, Paris, Strasbourg, Stuttgart, Mount Wilson (2), Pasadena (2), Grozny, near Erevan, near La Paz, and near Wellington), 15h. (Baku, Tashkent, Sverdlovsk, Vladivostok, Nagoya, and near Mizusawa), 16h. (Mount Wilson, Pasadena, Vladivostok, Sverdlovsk, Tashkent, Kodaikanal, and Neuchatel), 17h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, Vladivostok, Sverdlovsk, Moscow, Tashkent (2), Ksara (2), Tiflis, Pulkovo (2), Baku (2), Copenhagen (2), Paris, Bombay (2), Colombo, and Kodaikanal), 18h. (Hyderabad, Calcutta, Mount Wilson, Pasadena, and Tinemaha), 19h. (near San Javier), 20h. (Kodaikanal, Sverdlovsk, Tashkent, Tiflis, Mount Wilson (2), and Pasadena (2)), 21h. (Sverdlovsk, Tiflis, Mount Wilson, and Pasadena), 22h. (Tashkent), 23h. (Kodaikanal, Hyderabad, Sverdlovsk, Tashkent, Mount Wilson, and Pasadena).

Nov. 11d. 0h. 41m. 57s. Epicentre $41^{\circ}0N$. $155^{\circ}0E$. N.3.

$$A = -.6840, B = +.3190, C = +.6561; \quad \delta = +8;$$

$$D = +.423, E = +.906; \quad G = -.595, H = +.277, K = -.755.$$

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Vladivostok	17.2	285	e 3 55	- 2	—	—	9.4	13.0
Sverdlovsk	58.8	320	9 54	- 2	e 17 57	- 3	26.0	36.6
Tashkent	61.6	302	e 10 4	-12	e 18 34	- 3	e 31.0	37.4
Tinemaha	E. 64.5	63	e 10 36	+ 1	—	—	—	—
Pasadena	Z. 66.2	65	i 10 47	0	—	—	—	—
Mount Wilson	Z. 66.3	65	i 10 48	+ 1	—	—	—	—
Baku	74.0	311	—	—	e 29 29	SSS	39.0	45.2
Grozny	74.4	315	—	—	e 21 40	+27	—	—
Tiflis	76.0	314	e 11 45	- 1	e 21 5	-27	38.4	48.8
Jena	82.7	338	e 12 11	-11	—	—	—	—
Ksara	86.6	313	i 12 45	+ 4	—	—	—	54.4
Neuchatel	87.7	339	e 12 43	- 3	—	—	—	—

Additional readings:—

Tiflis eSSSE = +30m.33s.

Ksara ePS = +25m.54s., ePPS = +26m.39s.

Long waves were also recorded at Hong Kong, Chiufeng, Nanking, Bombay, Scoresby Sund, Moscow, Pulkovo, and at other European stations.

Nov. 11d. 17h. 11m. 22s. Epicentre $39^{\circ}0N$. $75^{\circ}0E$. (as on 1929 June 18d.). X.

$$A = +.2011, B = +.7507, C = +.6293; \quad \delta = +1;$$

$$D = +.966, E = -.259; \quad G = +.163, H = +.608, K = -.777.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2.4	301	e 0 41	P _r	i 1 29	S _r	—	1.7
Frunse	3.9	355	e 0 56	0	i 1 44	+ 4	—	—
Almata	4.5	18	i 1 7	+ 3	i 2 16	S*	—	—
Tashkent	5.0	300	i 1 10	- 1	i 1 59	- 9	2.0	2.9
Tchimkent	5.2	310	e 1 13	- 1	—	—	—	—
Samarkand	6.2	278	e 1 27	- 1	e 2 49	S _r	—	—
Dehra Dun	9.0	163	2 18	+11	3 38	-11	4.6	5.6
Semipalatinsk	12.0	16	e 2 44	- 4	e 5 31	+28	e 7.7	—
Baku	19.3	282	i 4 21	- 1	7 57	+ 5	11.1	12.7
Calcutta	N. 20.0	142	e 4 16	-14	17 50	-16	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bombay	20.2	186	—	—	e 7 38?	-32	—	12.5
Sverdlovsk	20.2	337	c 4 37	+ 5	i 8 29	SS	10.7	11.1
Hyderabad	21.7	171	8 35	S	(8 35)	- 5	11.9	12.9
Grozny	22.3	292	i 4 57	+ 3	i 9 11	+19	17.6	—
Tiflis	23.1	286	5 0 _a	- 2	e 9 12	+ 5	14.6	19.5
Erevan	23.4	283	e 5 12	+ 7	e 9 41	+29	—	—
Piatigorsk	24.3	294	e 5 12	- 1	e 9 37	+ 9	—	—
Sotchi	26.7	293	e 5 38	+ 3	—	—	—	—
Kodaikanal	E. 28.8	175	i 10 38	S	(i 10 38)	- 7	13.8	15.3
Moscow	29.8	317	e 6 2	- 1	e 11 4	+ 3	e 15.2	18.5
Theodosia	29.8	294	e 5 48	-15	—	—	—	—
Simferopol	30.6	296	e 6 10	0	—	—	e 14.4	—
Yalta	30.6	295	e 6 10	0	—	—	e 16.2	—
Chiufeng	31.4	74	e 6 11	- 6	e 9 48	?	—	20.7
Ksara	31.7	274	i 6 20 _a	0	e 11 42	+11	—	—
Colombo	32.4	172	11 29	S	(11 29)	-12	(16.4)	24.3
Vladivostok	42.3	66	—	—	e 17 40	SS	23.4	31.4
Copenhagen	43.8	315	—	—	14 38	+ 5	23.6	—

Additional readings :—

Andijan $iP_g = +47s.$, $PP = +49s.$, $i = +1m.4s.$, $PP = +1m.11s.$

Frunse $iP_g = +1m.8s.$, $iPP = +1m.14s.$, $iS_g = +1m.58s.$, $iPS = +1m.39s.$

Tchimkent $iPP = +1m.38s.$

Samarkand $e = +2m.2s.$ and $+2m.31s.$

Hyderabad $S = +11m.14s.$

Tiflis $eZ = +9m.20s.$, $SSSE = +10m.46s.$, $eP_cSE = +11m.52s.$

Kodaikanal $iSE? = +13m.4s.$

Theodosia $e = +6m.48s.$

Colombo gives S and L as P and S respectively.

Long waves were also recorded at Hong Kong, Zi-ka-wei, Nanking, Scoresby Sund, and several European stations.

Nov. 11d. Readings also at 0h. (Tiflis, Frunse, Grozny, Sverdlovsk, near Samarkand, Tashkent, and Tchimkent), 2h. (Fresno, near Berkeley, Branner, Lick, San Francisco, near Grozny, and Tiflis), 3h. (Grozny, Tiflis, and Philadelphia), 4h. (Colombo, Kodaikanal, Bombay, Ksara, and Philadelphia), 8h. (Arapuni and near Wellington (2)), 9h. (near Mizusawa and Nagoya), 10h. (Adelaide, Melbourne, Sydney, Perth, Christchurch, Wellington, Ksara, Mount Wilson, and Pasadena), 11h. (Mizusawa (2)), 12h. (Fresno, Christchurch, and Alicante), 15h. (Nanking, Graz, and near Zagreb), 17h. (Frunse (2), near Almata (2), and Andijan (2)), 18h. (Frunse, near Almata and Andijan), 21h. (La Plata, near Santiago, and San Javier), 22h. (Mount Wilson and Pasadena).

Nov. 12d. 2h. 15m. 39s. Epicentre $16^{\circ}5N.$ $147^{\circ}0E.$ (as on 1931 Nov. 3d.). R.2.

$A = -.8041$, $B = +.5222$, $C = +.2840$; $\delta = -7$;

$D = +.545$, $E = +.839$; $G = -.238$, $H = +.155$, $K = -.959$.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	20.7	337	e 4 38	+ 1	8 11	- 9	—	—
Sumoto	20.9	331	e 4 45	+ 6	8 13	-11	—	—
Kobe	E. 21.0	331	e 4 30	-10	e 8 12	-14	e 11.8	—
	N. 21.0	331	e 4 29	-11	e 8 18	- 8	e 11.9	—
	Z. 21.0	331	e 4 20	-20	e 8 19	- 7	e 10.6	—
Hukuoka B	22.7	322	e 5 0	+ 2	e 9 31	SS	—	—
Mizusawa	23.2	348	i 5 0	- 3	i 9 4	- 4	—	—
Manila	25.1	269	i 5 22	+ 1	10 16	+33	—	—
Keizyo	27.5	324	e 5 47	+ 4	e 10 24	0	e 13.6	—
Zi-ka-wei	Z. 27.5	308	e 5 45	+ 2	—	—	13.7	16.8
Vladivostok	29.6	337	e 7 17	?	e 10 43	-15	12.8	18.2
Nanking	29.9	306	e 6 3	- 1	10 59	- 4	e 14.3	15.7
Hong Kong	31.4	287	6 26	+ 9	11 25	- 1	—	16.7
Chiufeng	35.7	318	e 6 55	0	12 14	-18	e 14.0	—
Phu-Lien	38.4	284	e 7 16	- 2	—	—	—	—

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	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	45.8	245	i 8 10	- 9	14 54	- 8	—	—
Medan	49.1	262	9 45	+61	17 50	?	—	—
Riverview	50.5	176	—	—	e 16 21	+13	e 24.8	29.5
Sydney	50.5	176	—	—	e 15 27	-41	23.8	25.4
Adelaide	52.1	189	i 9 9	+ 2	i 16 26	- 4	24.2	33.2
Melbourne	54.4	183	e 8 49	-35	i 17 0	- 1	—	29.8
Calcutta	N. 55.3	287	—	—	i 17 10	- 3	—	—
Semipalatinsk	E. 62.6	319	e 11 15	+53	—	—	—	—
Agra	E. 64.2	293	—	—	i 18 54	-16	—	—
Christchurch	64.5	160	26 48	?	31 31	?	34.7	—
College	64.7	25	—	—	e 19 28	+12	e 30.6	—
Frunse	66.1	311	e 11 17	+31	e 19 21	-13	—	—
Kodaikanal	E. 67.6	276	—	—	e 19 21?	-31	—	—
Tashkent	70.1	310	11 5	- 6	i 20 7	-15	e 29.4	36.6
Samarkand	72.0	309	e 11 21	- 2	e 21 18	+33	—	—
Sverdlovsk	74.2	326	i 11 37	+ 1	i 21 1	-10	31.4	43.4
Berkeley	80.5	54	e 12 10	0	—	—	—	—
Branner	80.6	53	e 12 9	- 2	—	—	—	—
Lick	81.1	54	e 12 13	- 1	—	—	—	—
Fresno	N. 82.7	55	e 12 23	+ 1	—	—	—	—
Tinemaha	83.8	52	e 12 27	0	e 22 45	-10	—	—
Haiwee	N. 84.3	54	e 12 30	0	e 22 50	[- 4]	—	—
Baku	84.6	311	—	—	e 22 41	[-15]	40.8	53.2
Pasadena	84.7	56	i 12 31 ^a	- 1	e 22 48	[- 9]	e 42.0	—
Mount Wilson	Z. 84.8	56	i 12 32	0	e 22 47	[-11]	—	—
Riverside	85.4	56	e 12 34	- 1	—	—	—	—
La Jolla	85.8	58	i 12 38	+ 1	—	—	—	—
Grozny	86.6	315	i 12 26	-15	i 23 6	[- 5]	—	—
Moscow	86.8	328	12 38	- 4	e 22 55	[-17]	38.8	51.4
Tiflis	87.8	313	e 12 41	- 6	i 23 15	[- 4]	e 37.0	47.5
Pulkovo	88.4	334	e 12 41	- 9	e 22 56	[-27]	41.4	50.4
Erevan	88.6	312	e 12 45	- 6	—	—	—	—
Sotchi	90.6	317	e 12 55	- 5	e 23 37	[+ 1]	—	—
Tucson	91.1	57	e 13 18	+15	e 23 58	- 8	e 40.1	—
Scoresby Sund	92.7	357	—	—	23 33	[-15]	44.4	—
Theodosia	92.8	319	e 13 16	+ 6	e 23 29	[-20]	—	—
Simferopol	93.6	319	e 13 10	- 4	e 23 36	[-17]	—	—
Yalta	93.8	319	e 13 12	- 3	—	—	—	—
Ksara	97.4	309	e 13 29	- 3	—	—	—	—
Ivigtut	101.4	8	e 17 33	PP	—	—	50.4	—
Florissant	103.0	43	—	—	e 24 27	[-13]	e 53.2	—
Ottawa	107.0	30	—	—	e 24 45	[-14]	51.4	—
San Juan	132.3	45	e 16 21	+ 1	—	—	—	—
Huancayo	138.8	90	e 19 25	[+ 5]	23 2	?	—	—
La Paz	146.3	96	i 19 40 ^a	[+ 4]	—	—	68.4	75.8
Rio de Janeiro	168.5	125	—	—	e 32 21?	?	84.4	—

Additional readings :—

Sumoto ePEN = +4m.50s.

Vladivostok e = +11m.49s.

Nanking eSS = +12m.44s., eE = +13m.18s.

Adelaide i = +9m.46s.

Melbourne i = +17m.28s. and +21m.21s.

Baku e = +30m.50s.

Pasadena iPKP, PKPZ = +38m.42s., eZ = +42m.3s.

Mount Wilson ePKP, PKPZ = +37m.49s.

Tiflis SKSE = +23m.1s., SSN = +29m.3s.

Tucson eSKS = +23m.33s., ePS = +25m.9s., e = +37m.3s.

Scoresby Sund +30m.27s.

Ksara ePPP = +19m.51s., ePPS = +27m.15s., eSS = +36m.18s.

Florissant i = +24m.31s., eN = +32m.45s.

Ottawa e = +27m.51s.

San Juan ePP = +22m.21s.

Huancayo ePP = +22m.28s., ePKS = +22m.58s., e = +23m.21s., ePPP = +25m.11s.

La Paz ipPKPZ = +21m.0s., PPZ = +24m.12s.

Long waves were also recorded at Hyderabad, Wellington, Bozeman, East Machias, Chicago, Madison, and some European stations.

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Nov. 12d. 4h. 26m. 9s. Epicentre 8°·0N. 103°·0W. (as on 1927 Nov. 19d.). X.

$$A = -.2228, B = -.9649, C = +.1392; \quad \delta = +5;$$

$$D = -.974, E = +.225; \quad G = -.031, H = -.136, K = -.990.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	N.	11.1	353	—	—	4 34?	- 7	—	—
Tacubaya	N.	12.0	17	2 48?	0	—	—	—	—
Guadalajara	N.	12.7	358	2 43	-15	—	—	—	—
Tucson		25.3	344	e 5 28	+ 5	e 9 51	+ 5	e 12.3	—
La Jolla		28.1	334	e 5 42	- 6	—	—	—	—
Little Rock	N.	28.5	19	e 5 51	- 1	—	—	—	—
Riverside	N.	29.2	335	e 6 2	+ 4	—	—	—	—
Pasadena		29.6	335	e 5 58	- 3	—	—	e 12.4	—
Mount Wilson	Z.	29.7	335	i 6 0	- 2	—	—	—	—
Tinemaha		32.2	337	e 6 24	0	—	—	—	—
St. Louis	N.	32.7	20	i 6 27	- 2	—	—	e 14.6	—
Florissant		32.8	19	e 6 30	0	e 10 52	-56	e 16.8	—
Huancayo		34.0	126	e 6 47	+ 7	e 12 16	+10	e 14.2	—
Chicago		36.4	20	e 8 13	PP	e 12 39	- 3	e 14.4	—
San Juan		37.3	70	e 7 3	- 6	—	—	16.5	—
Bozeman		38.3	351	—	—	(e 13 9)	- 2	e 13.2	—
La Paz		42.3	128	e 7 56	+ 5	i 13 28	-42	16.0	26.0
Ottawa		44.2	28	—	—	e 14 39	0	21.8	—
Rio de Janeiro	E.	66.1	119	e 19 51	S	(e 19 51)	+17	e 33.4	—
Scoresby Sund		79.5	20	—	—	22 16	+ 6	39.8	—
Pulkovo		102.8	22	e 15 16	?	—	—	51.8	57.0
Moscow		108.4	21	—	—	e 31 54	?	—	—
Tifis		122.2	28	—	—	e 32 19	?	e 62.4	81.8
Ksara		122.8	41	e 19 45	PP	—	—	61.8	70.4
Baku		125.6	25	—	—	e 32 48	?	58.8	70.4

Additional readings:—

Tucson eSS = +10m.48s.

Little Rock eN = +6m.2s.

St. Louis iN = +7m.22s.

Florissant eE = +6m.39s., i = +7m.29s., eN = +11m.37s., iN = +11m.50s., iE = +12m.50s.

Huancayo e = +7m.15s. and +8m.7s., eS = +11m.57s.

San Juan e = +8m.27s., +8m.55s., and +9m.53s.

Ottawa eE = +18m.3s.

Scoresby Sund +27m.21s.

Ksara e = +30m.40s. and +35m.49s.

Baku e = +42m.16s. and +49m.3s.

Long waves were also recorded at Berkeley, Honolulu, Christchurch, Wellington, Vladivostok, Ukiah, Madison, Denver, Oak Ridge, Tashkent, Sverdlovsk, Copenhagen, De Bilt, Paris, Strasbourg, Stuttgart, and Ivigtut.

Nov. 12d. 6h. 28m. 0s. Epicentre 34°·0N. 133°·9E. (as on 1936 Oct. 30d.). X.

$$A = -.5749, B = +.5974, C = +.5592; \quad \delta = +10;$$

$$D = +.721, E = +.693; \quad G = -.388, H = +.403, K = -.829.$$

		Δ	Az.	P.	O-C.	S.	O-C.	M.
		°	°	m. s.	s.	m. s.	s.	m.
Sumoto		0.9	67	i 0 20	+ 7	0 38	+15	0.7
Kobe		1.2	57	i 0 24	+ 7	0 43	+12	0.8
Toyooka		1.7	26	0 26k	P*	0 47	+ 3	0.9
Nagoya		2.7	67	e 0 50	P _r	1 37	S _r	—
Hukuoka		2.9	262	0 41	0	1 15	+ 1	—
Hukuoka B		2.9	262	0 39	- 2	1 17	+ 3	—

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Nov. 12d. 8h. 28m. 21s. Epicentre 13°·3N. 145°·2E. N.2.

A = -·7991, B = +·5554, C = +·2300; $\delta = -7$;
D = +·571, E = +·821; G = -·189, H = +·131, K = -·973.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	12·1	242	3 53	+63	6 12	S*	—	—
Naha	20·9	309	4 39	0	7 43	-41	—	—
Siomisaki	21·9	338	4 50	0	8 53	+ 9	—	—
Mera	22·2	349	4 57	+ 4	—	—	—	—
Misima	22·5	346	4 57	+ 1	—	—	—	—
Miyazaki	22·5	327	4 58 ^a	+ 2	9 2	+ 7	—	—
Simidu	22·5	332	4 53	- 3	9 1	+ 6	—	—
Yokohama	22·7	348	5 15	+17	9 16	+17	—	—
Koti	22·8	334	5 0	+ 1	9 9	+ 8	—	—
Wakayama	22·8	339	4 59	0	9 8	+ 7	—	—
Tokyo	22·9	349	5 6	+ 6	—	—	—	—
Hunatu	23·0	348	4 56	- 5	—	—	—	—
Kameyama	23·0	340	5 2	+ 1	—	—	—	—
Sumoto	23·0	339	5 1 ^a	0	9 12	+ 7	—	—
Nagoya	23·1	344	e 5 3	+ 1	e 9 14	+ 7	—	—
Osaka	23·1	340	4 46	-16	9 4	- 3	—	—
Kobe	E. 23·2	340	e 5 5	+ 2	8 56	-12	—	12·9
	N. 23·2	340	e 5 4	+ 1	9 1	- 7	—	15·0
	Z. 23·2	340	e 5 1	- 2	9 3	- 5	—	16·8
Gihu	23·4	344	5 4	- 1	9 18	+ 6	—	—
Hikone	23·4	343	5 7	+ 2	—	—	—	—
Kakioka	23·4	349	5 9	+ 4	9 17	+ 5	—	—
Matuyama	23·4	334	5 3	- 2	9 20	+ 8	—	—
Tukubasan	23·4	349	5 7	+ 2	9 25	+13	—	—
Kumagaya	23·5	348	5 3	- 2	9 35	+21	—	—
Manila	23·5	276	i 5 9 ^k	+ 4	9 28	+14	—	—
Mito	23·5	350	5 19	+14	9 16	+ 2	—	—
Kumamoto	23·6	328	5 7 ^a	+ 1	—	—	—	—
Maebasi	23·8	348	5 11	+ 3	—	—	—	—
Oiwake	23·8	347	5 11	+ 3	9 2	-17	—	—
Unzendake	23·8	327	5 8	0	—	—	—	—
Nagasaki	24·0	327	5 11	+ 1	—	—	—	—
Nagano	24·2	346	5 16	+ 4	9 41	+14	—	—
Hukuoka B	24·3	329	5 13	0	9 46	+18	—	—
Karenko	24·7	299	4 50	-27	—	—	—	—
Taito	24·7	297	5 54	PPPP	—	—	—	—
Kosyun	24·8	295	5 19	+ 1	—	—	—	—
Arisan	25·3	298	5 27	+ 4	—	—	—	—
Sendai	25·3	353	5 23	0	10 8	+22	—	—
Keizyo	29·2	329	e 6 6	+ 8	e 10 48	- 3	e 13·1	—
Zinsen	29·3	328	e 6 39 [?]	PP	—	—	—	—
Nanking	30·6	311	e 7 7	PP	i 11 23	+ 9	e 14·3	19·4
Vladivostok	32·0	341	e 6 21	- 2	e 11 32	- 3	14·1	19·0
Chiufeng	37·0	322	i 7 7 ^a	+ 1	i 12 47	- 4	15·9	21·5
Phu-Lien	37·5	287	e 8 39 [?]	PP	e 12 39 [?]	-20	—	—
Batavia	42·8	246	i 7 56	+ 1	—	—	—	—
Medan	46·9	263	e 8 27	- 1	—	—	—	—
Adelaide	48·6	187	i 12 2	?	e 15 40	- 1	—	30·3
Melbourne	51·1	180	—	—	i 16 19	+ 3	24·9	29·1
Calcutta	N. 54·6	288	e 12 24	PPP	—	—	—	—
Agra	E. 63·9	294	e 10 36	+ 5	—	—	—	—
Colombo	64·5	271	11 2	+27	19 38	+24	32·6	—
Tashkent	70·7	310	e 11 41	+26	20 44	+14	e 32·1	38·0
Sverdlovsk	75·9	326	11 52	+ 7	21 22	- 8	32·1	42·9
Berkeley	83·8	52	e 12 27	0	—	—	—	—
Branner	84·0	53	e 12 29	+ 1	—	—	—	—
Baku	85·4	311	e 12 36	+ 1	e 23 6	[+ 4]	41·6	47·0
Tinemaha	87·1	53	e 12 44	0	—	—	—	—
Haiwee	N. 87·6	53	e 12 51	+ 5	e 23 27	- 6	—	—
Pasadena	87·9	56	i 12 48	+ 1	e 23 31	- 5	e 39·2	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Mount Wilson	88.0	56	i 12 46	- 2	c 23 32	- 5	—	—
Moscow	88.6	327	e 16 6	PP	24 39	PS	40.6	51.0
Riverside	88.6	56	e 12 51	0	e 23 37	- 6	—	—
Tiflis	88.7	312	e 12 59	+ 8	c 23 19	[- 5]	42.6	58.0
La Jolla	89.0	57	e 12 53	0	—	—	—	—
Pulkovo	90.4	333	e 13 15	+16	c 24 27	+27	43.6	53.3
Scoresby Sund	95.8	356	—	—	31 39?	SS	49.6	—
Ksara	98.0	307	c 17 7	PP	26 31	PS	—	—
Huancayo	140.5	92	22 53	PKS	e 41 9	SS	e 64.7	—
La Paz	147.7	99	e 19 42 _a	[+ 4]	26 28	[- 9]	69.3	80.1

Additional readings:—

Nanking sS = +12m.56s.

Chiufeng SSE = +15m.12s., SSN = +15m.15s., iE = +15m.23s., iN = +15m.27s.

Batavia iPEN = +7m.57s.

Adelaide i = +15m.52s., e = +18m.31s. = S_cS - 4s. and +19m.46s.

Pasadena eE? = +19m.49s., eZ = +23m.33s.

Tiflis eE = +15m.25s., ePPPE = +18m.21s., ePSN = +24m.1s., eSSN = +29m.23s.

Pulkovo e = +27m.50s., SS = +29m.57s.

Ksara SS = +32m.33s.

Huancayo e = +23m.12s. = PKS + 2s.

La Paz iPKPZ = +19m.48s., ipPKP = +21m.19s., sPZ = +22m.24s., SKKS = +30m.27s.

Long waves were also recorded at Hong Kong, Christchurch, Wellington, River-view, Honolulu, Hyderabad, Tucson, Florissant, and other European stations.

Nov. 12d. 20h. 4m. 48s. Epicentre 45°·5N. 148°·5E. N.1.

A = -·5976, B = +·3662, C = +·7133; δ = +3;

D = +·522, E = +·853; G = -·608, H = +·373, K = -·701.

A Correction for depth of focus of 0.015 has been applied.

	Corr. for Focus	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nemuro	+0.2	3.0	224	0 44	- 2	1 16	- 6	—	—
Kusiro	+0.2	3.9	231	0 34	-24	1 16	-29	—	—
Obihiro	0.0	4.6	238	1 2	- 4	1 54	- 4	—	—
Asahigawa	0.0	4.7	251	1 19 _a	+12	2 13	+13	—	—
Haboro	0.0	5.0	260	0 57	-14	1 57	-11	—	—
Urakawa	0.0	5.3	233	0 51	-24	1 48	-27	—	—
Sapporo	0.0	5.7	247	1 25 _k	+ 4	2 4	-21	—	—
Muroran	0.0	6.3	243	1 31 _a	+ 1	2 37	- 4	—	—
Hakodate	0.0	6.7	240	1 42	+ 7	2 52	+ 1	—	—
Hatinohe	-0.1	7.1	229	0 56 _a	-43	2 10	-49	—	—
Aomori	-0.1	7.3	233	1 42	0	2 56	- 8	—	—
Miyako	-0.1	7.6	221	1 40	- 6	3 4	- 7	—	—
Morioka	-0.1	7.9	226	1 48 _k	- 3	3 10	- 9	—	—
Mizusawa	-0.1	8.4	243	1 55	- 3	i 3 21	-10	—	—
Akita	-0.1	8.5	230	2 0	+ 1	3 26	- 8	—	—
Isinomaki	-0.2	8.9	220	2 1	- 2	3 32	- 9	—	—
Sendai	-0.2	9.2	221	2 7 _a	0	3 41	- 8	—	—
Yamagata	-0.2	9.4	223	2 9	- 1	3 32	-22	—	—
Hokusima	-0.2	9.8	220	2 12	- 4	3 56	- 7	—	—
Aidu	-0.2	10.1	221	2 39 _a	+20	4 26	+15	—	—
Onahama	-0.2	10.3	216	2 16	- 6	3 57	-19	—	—
Mito	-0.2	10.9	216	2 30	- 1	4 18	-13	—	—
Utunomiya	-0.2	11.0	219	2 31	- 1	4 28	- 5	—	—
Kakioka	-0.2	11.2	217	2 31 _k	- 4	4 27	-11	—	—
Tukubasan	-0.2	11.2	218	2 31 _k	- 4	4 25	-13	—	—
Tyosai	-0.2	11.3	213	2 34	- 2	4 29	-12	—	—
Takada	-0.2	11.4	226	2 36	- 1	4 38	- 5	—	—
Maebasi	-0.2	11.5	221	2 36	- 3	4 39	- 6	—	—
Kumagaya	-0.2	11.6	219	2 37	- 3	4 41	- 7	—	—
Nagano	-0.2	11.7	225	2 41	- 1	4 46	- 4	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Oiwake	-0.2	11.8	223	2	44	+ 1	5	9	+16	—	—
Tokyo	-0.2	11.8	217	2	41	- 2	4	44	- 9	—	—
Wazima	-0.3	11.9	231	2	43	0	4	46	- 7	—	—
Vladivostok	-0.3	12.1	264	2	50	+ 4	i 5	2	+ 4	5.7	11.9
Yokohama	-0.3	12.1	216	2	48	+ 2	4	54	- 4	—	—
Toyama	-0.3	12.3	228	2	47	- 1	4	57	- 6	—	—
Hunatu	-0.3	12.4	220	2	51	+ 1	4	58	- 7	—	—
Kohu	-0.3	12.4	221	2	51	+ 1	5	1	- 4	—	—
Mera	-0.3	12.5	215	2	49	- 2	5	3	- 5	—	—
Misima	-0.3	12.6	218	2	53	+ 1	5	6	- 4	—	—
Numadu	-0.3	12.7	219	3	0	+ 6	—	—	—	—	—
Iida	-0.3	12.8	223	2	57	+ 2	—	—	—	—	—
Gihu	-0.3	13.4	225	3	3k	0	5	41	+12	—	—
Hamamatu	-0.3	13.5	221	3	3	- 2	5	39	+ 7	—	—
Nagoya	-0.3	13.5	225	e 3	4	- 1	5	47	+15	—	—
Hikone	-0.4	13.8	226	3	11	+ 4	—	—	—	—	—
Kameyama	-0.5	14.1	225	3	10	0	5	54	+13	—	—
Kyoto	-0.5	14.3	227	3	14k	+ 1	—	—	—	—	—
Toyooka	-0.5	14.4	231	3	15k	+ 1	5	49	0	—	—
Osaka	-0.5	14.7	227	3	20	+ 2	6	2	+ 6	—	—
Osaka B	-0.5	14.7	227	3	21	+ 3	6	14	+18	—	—
Kobe	-0.5	14.8	228	i 3	21	+ 2	6	10	+12	—	6.2
Sumoto	-0.5	15.2	227	3	23k	- 2	6	18	+10	—	—
Wakayama	-0.5	15.2	227	3	23	- 2	6	14	+ 6	—	—
Siomisaki	-0.5	15.5	224	3	32k	+ 4	6	26	+11	—	—
Hamada	-0.5	16.4	235	3	42	+ 2	6	18	-18	—	—
Hirosima	-0.5	16.5	233	3	45	+ 4	6	44	+ 6	—	—
Koti	-0.5	16.5	229	3	41	0	6	46	+ 8	—	—
Matuyama	-0.6	16.7	231	3	45k	+ 2	6	48	+ 7	—	—
Keizyo	-0.6	17.9	252	e 4	0	+ 2	e 7	13	+ 4	—	—
Heizyo	-0.6	17.9	257	e 3	58	0	i 7	16	+ 7	—	—
Husan	-0.6	18.1	242	4	2	+ 2	7	15	+ 2	—	—
Zinsen	-0.6	18.2	253	e 4	0	- 2	i 7	20	+ 5	—	—
Hukuoka	-0.6	18.3	236	4	1	- 2	7	19	+ 2	—	—
Hukuoka B	-0.6	18.3	236	4	3	0	7	19	+ 2	—	—
Kumamoto	-0.6	18.7	233	4	9	+ 1	7	33	+ 6	—	—
Miyazaki	-0.6	19.0	230	4	12k	+ 1	7	38	+ 5	—	—
Unzendake	-0.6	19.0	235	4	25	+14	7	52	+19	—	—
Titizima	-0.6	19.1	198	4	11	- 2	—	—	—	—	—
Nagasaki	-0.6	19.2	235	4	13	- 1	7	49	+11	—	—
Kagosima	-0.6	19.7	231	4	21	+ 1	—	—	—	—	—
Tomie	-0.6	19.9	237	4	21	- 1	7	58	+ 6	—	—
Nake	-0.7	22.8	228	4	45	- 7	—	—	—	—	—
Chiufeng	-0.8	24.2	270	i 5	5a	0	9	13	+ 1	—	—
Naha	-0.8	25.5	229	5	17	0	9	31	- 5	—	—
Nanking	-0.8	26.6	251	e 5	26	- 1	i 9	48	- 7	—	—
Taito	-1.0	31.8	235	6	56	+44	—	—	—	—	—
Hong Kong	-1.2	36.3	242	12	18	S	(12 18)	—	- 5	—	22.8
College	-1.3	38.9	36	7	41	+29	e 13	27	+27	—	—
Phu-Lien	-1.4	43.0	249	e 7	35	-10	e 13	45	-15	—	—
Semipalatinsk	-1.4	44.3	302	i 7	55	- 1	—	—	—	—	—
Almata	-1.5	48.9	295	8	40	+ 8	—	—	—	—	—
Frunse	-1.5	51.1	295	e 8	49	+ 1	15	58	+ 3	—	—
Sverdlovsk	-1.5	52.3	317	i 9	7	+10	i 16	20	+ 8	21.3	31.9
Calcutta	-1.6	53.5	266	—	—	—	i 16	29	+ 2	—	18.8
Andijan	-1.6	53.6	294	e 9	15	+ 9	—	—	—	—	—
Tchimkent	-1.6	53.9	297	9	12	+ 3	16	35	+ 2	—	—
Agra	-1.8	57.7	277	e 9	34	- 1	i 17	19	- 2	—	—
Samarkand	-1.8	57.7	296	9	39	+ 4	17	23	+ 2	—	—
Moscow	-1.9	63.3	324	e 10	18	+ 4	e 18	37	+ 3	22.7	33.2
Pulkovo	-1.9	63.3	331	i 10	16	+ 2	e 18	33	- 1	25.2	31.6
San Francisco	N. -1.9	63.5	62	e 10	18	+ 2	—	—	—	—	—
Berkeley	-1.9	63.6	62	e 10	17	+ 1	—	—	—	—	—
Scoresby Sund	-1.9	63.8	356	10	19	+ 1	18	51	+10	—	—
Branner	-1.9	63.9	62	e 10	21	+ 3	—	—	—	—	—
Fresno	N. -1.9	65.8	62	e 10	34	+ 3	—	—	—	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Tinemaha	-1.9	66.5	60	i 10	39	+ 3	e 19	19	+ 4	—	—
Bombay	-1.9	66.7	273	—	—	—	i 19	13	- 4	—	—
Haiwee	N. -1.9	67.3	60	i 10	43	+ 2	i 19	30	+ 5	—	—
Baku	-1.9	67.5	306	i 10	45	+ 3	i 19	33	+ 6	e 36.7	41.2
Grozny	-2.0	67.9	310	i 10	46	+ 1	i 19	38	+ 7	—	—
Mount Wilson	-2.0	68.5	63	i 10	50a	+ 1	—	—	—	—	—
Pasadena	-2.0	68.5	63	i 10	49a	0	i 19	42	+ 3	—	—
Piatigorsk	-2.0	68.8	312	i 10	26	-25	19	22	-20	—	—
Riverside	-2.0	69.1	63	i 10	52	0	—	—	—	—	—
Tiflis	-2.0	69.5	309	i 10	56a	+ 1	i 19	54	+ 3	e 34.2	47.9
La Jolla	-2.0	69.9	63	i 10	58	0	—	—	—	—	—
Erevan	-2.0	70.7	308	i 11	8	+ 5	20	15	+10	—	—
Sotchi	-2.0	70.8	313	i 11	4	+ 1	e 20	8	+ 1	—	—
Theodosia	-2.0	71.9	317	i 11	11	+ 1	20	22	+ 2	—	—
Copenhagen	-2.0	72.3	336	i 11	11	- 2	20	22	- 3	37.2	—
Simferopol	-2.0	72.6	318	i 11	13	- 1	—	—	—	—	—
Yalta	-2.0	72.9	317	i 11	17	+ 1	e 20	32	0	—	—
Sebastopol	-2.0	73.1	318	11	18	+ 1	—	—	—	—	—
Tucson	-2.0	74.3	59	e 11	25	0	e 20	46	- 2	e 32.0	—
Hamburg	-2.0	74.8	337	i 11	27	- 1	—	—	—	e 36.2	—
Prague	z. -2.0	76.5	332	i 11	22a	-15	—	—	—	—	—
Jena	-2.0	76.6	333	i 11	36	- 1	—	—	—	—	—
Göttingen	-2.0	76.6	335	i 11	38k	0	—	—	—	—	—
Vienna	-2.0	77.3	329	e 11	42	0	—	—	—	—	—
De Bilt	-2.0	77.4	338	i 11	43	0	e 21	24	- 1	e 31.2	—
Uccle	z. -2.1	78.8	338	i 11	49a	- 1	—	—	—	—	—
Sofia	-2.1	79.2	322	e 11	53	0	i 21	43	- 1	40.2	—
Stuttgart	-2.1	79.3	334	i 11	52a	- 1	e 21	42	- 3	—	—
Zagreb	-2.1	79.5	328	e 11	52	- 2	e 21	43	- 4	—	—
Strasbourg	-2.1	79.9	335	i 11	55a	- 2	—	—	—	e 21.2	—
Ksara	-2.1	80.0	308	i 11	56a	- 1	i 21	52	- 1	—	—
Florissant	-2.1	80.5	43	e 11	58	- 1	i 21	53	- 5	—	—
St. Louis	-2.1	80.7	43	i 12	1	+ 1	i 21	58	- 2	—	—
Zurich	-2.1	80.7	334	e 11	59a	- 1	e 21	55	- 5	—	—
Chur	-2.1	80.9	334	e 12	0	- 1	e 21	54	- 9	—	—
Paris	z. -2.1	81.1	338	i 12	3a	0	—	—	—	—	—
Little Rock	-2.1	82.7	46	i 12	10	- 1	i 22	16	- 6	—	—
Oak Ridge	-2.1	85.0	28	i 12	23	0	—	—	—	—	—
Helwan	-2.1	85.6	309	i 12	22	- 4	i 22	32	-20	—	—
Toledo	z. -2.1	91.1	339	e 12	50	- 3	—	—	—	—	—

Additional readings :—

Toyooka SN = +5m.53s.
 Kobe i = +3m.25s.
 Zinsen iPE = +4m.5s.
 College S = +13m.30s.
 Calcutta iN = +17m.34s.
 Almata e = +9m.16s.
 San Francisco eE = +10m.21s.
 Scoresby Sund +20m.12s. = S_cS - 8s.
 Tinemaha iN = +12m.5s.
 Grozny e = +20m.28s.
 Mount Wilson iPKP, PKPZ = +38m.56s., iZ = +40m.0s.
 Pasadena ePKP, PKPZ = +38m.57s., eZ = +39m.47s.
 Piatigorsk e = +20m.12s.
 Tiflis epPNZ = +11m.33s., PPN = +14m.34s., PPPN = +15m.52s., iSP = +20m.42s., SSSE = +26m.52s., eN = +27m.46s. = SSSS - 9s.
 Sotchi e = +20m.52s.
 Copenhagen +21m.7s.
 Tucson e = +29m.18s.
 Prague e = +11m.33s., +12m.39s., and +13m.48s.
 Jena iN = +11m.39s.
 Vienna e = +12m.13s. and +13m.42s.
 Ksara ipP = +12m.35s., sP = +12m.51s., sS = +23m.2s.
 Florissant ipP = +12m.22s., eZ = +12m.26s., iE = +21m.3s., iN = +22m.2s., eN = +23m.0s.
 St. Louis ipPEN = +12m.9s., esSE = +22m.12s.
 Little Rock ipPEN = +12m.18s., iEN = +12m.58s., iE = +15m.18s., isSEN = +22m.30s.
 Oak Ridge e = +13m.1s.
 Long waves were also recorded at Hyderabad.

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Nov. 12d. Readings also at 0h. (Andijan and Frunse), 8h. (Mount Wilson, Pasadena, near Berkeley, San Francisco, and Branner), 10h. (Florence), 11h. (Sumoto), 12h. (near Sumoto), 15h. (Pasadena and Mount Wilson), 6h. (Kobe, Oak Ridge, Andijan, and near Sumoto), 17h. (Hamburg), 18h. (Sofia and Tashkent), 20h. (Weston), 22h. (San Francisco), 23h. (Almata, Andijan, and Frunse).

Nov. 13d. 12h. 31m. 35s. Epicentre $56^{\circ}2N$. $163^{\circ}3E$. N.1.

A = -0.5328, B = +0.1599, C = +0.8310; $\delta = 0$;
D = +0.287, E = +0.958; G = -0.796, H = +0.239, K = -0.556.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sikka	14.0	248	4 50	+95	—	—	—	—
Ootomari	15.9	241	3 41	+ 1	6 53	+17	—	—
Nemuro	17.1	229	3 54	- 1	7 41	+39	—	—
Kusiro	17.9	230	3 47	-18	—	—	—	—
Haboro	18.0	242	3 40	-27	7 23	- 2	—	—
Asahigawa	18.2	239	4 15	+ 6	—	—	—	—
Sapporo	19.2	237	4 17k	- 4	8 26	+36	—	—
Urakawa	19.3	233	4 21	- 1	—	—	—	—
Muroran	19.9	238	4 25	- 4	—	—	—	—
Hatinohe	21.1	231	4 38	- 3	8 40	+12	—	—
Aomori	21.2	233	4 44	+ 2	—	—	—	—
Miyako	21.7	229	5 57	+69	—	—	—	—
Morioka	22.0	230	4 50	- 1	—	—	—	—
Mizusawa	22.5	230	4 52	- 4	9 6	+11	11.4	—
Isinomaki	23.0	230	4 58	- 3	—	—	—	—
Sendai	23.3	230	5 1a	- 3	9 20	+10	—	—
Yamagata	23.5	231	5 6	+ 1	—	—	—	—
Hukushima	23.9	230	5 7a	- 2	9 36	+15	—	—
Vladivostok	23.9	250	e 5 6	- 3	e 9 17	- 4	—	31.0
Aidu	24.2	230	4 46a	-26	9 3	-24	—	—
Onahama	24.4	228	5 2a	-12	—	—	—	—
College	24.8	48	i 5 22a	+ 4	9 34	- 3	14.1	—
Mito	25.1	228	5 20	- 1	9 38	- 5	—	—
Utunomiya	25.2	229	5 23	+ 1	—	—	—	—
Kakioka	25.3	228	5 22a	- 1	9 49	+ 3	—	—
Takada	25.4	234	5 25	+ 1	—	—	—	—
Tukubasan	25.4	228	5 21a	- 3	9 52	+ 4	—	—
Tyosi	25.5	225	5 24	- 1	9 58	+ 8	—	—
Kumagaya	25.7	229	5 25a	- 1	—	—	—	—
Maebasi	25.7	230	5 25	- 1	10 1	+ 8	—	—
Nagano	25.8	234	5 27	0	9 57	+ 2	—	—
Wazima	25.8	234	5 26	- 1	10 19	+24	—	—
Oiwake	25.9	230	5 28a	0	9 58	+ 1	—	—
Tokyo	26.0	227	5 31	+ 2	10 27	+29	—	—
Husiki	26.2	235	5 7	-24	—	—	—	—
Toyama	26.2	235	5 30	- 1	—	—	—	—
Yokohama	26.2	227	5 30a	- 1	—	—	—	—
Matumoto	26.3	230	5 29a	- 3	—	—	—	—
Kohu	26.5	229	5 33	- 1	10 21	+14	—	—
Hunatu	26.6	229	5 34	- 1	10 10	+ 1	—	—
Kanazawa	26.6	235	5 30	- 5	—	—	—	—
Mera	26.6	228	5 24	-11	—	—	—	—
Takayama	26.7	232	5 35	0	—	—	—	—
Misima	26.8	227	5 35a	- 1	—	—	—	—
Numadu	26.8	227	5 38	+ 2	—	—	—	—
Iida	26.9	229	5 35	- 2	—	—	—	—
Ito	26.9	227	5 39	+ 2	—	—	—	—
Sinkyō	26.9	259	6 6	+29	—	—	—	—
Gihu	27.5	230	5 42	- 1	10 24	0	—	—
Omaesaki	27.6	227	5 47	+ 3	—	—	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	27.6	230	5 41	- 3	—	—	14.1	20.5
Ibukisan	27.7	231	5 59	+15	—	—	—	—
Hamamatu	27.7	229	5 44	0	10 29	+ 2	—	—
Hikone	27.8	231	5 46	+ 1	10 48	+20	—	—
Miyadu	28.1	234	5 57	+ 9	—	—	—	—
Kameyama	28.1	231	5 46	- 2	10 50	+16	—	—
Toyooka	28.2	235	5 45	- 4	10 56	+21	14.7	21.8
Tu	28.2	231	5 30	-19	—	—	—	—
Kyoto	28.3	231	5 49	- 1	—	—	—	—
Osaka	28.7	233	5 59	+ 6	—	—	—	—
Osaka B	28.7	233	5 56	+ 3	—	—	—	—
Yagi	28.7	233	5 52	- 1	—	—	—	—
Kobe	28.8	233	e 5 49	- 5	e 10 47	+ 2	e 13.4	15.8
Sumoto	29.2	233	5 54	- 4	10 49	- 2	e 15.6	15.9
Wakayama	29.2	233	5 56	- 2	—	—	—	—
Fengtien	29.3	257	5 51	- 8	11 0	+ 7	—	—
Okayama	29.4	234	5 57	- 3	—	—	—	—
Siomisaki	29.6	231	6 0 ^a	- 1	11 4	+ 6	—	—
Tokusima	29.6	233	6 1	0	—	—	—	—
Tadotu	29.8	234	6 0	- 3	—	—	—	—
Heizyo	30.0	251	e 6 9	+ 4	i 11 17	+13	i 16.7	18.4
Hamada	30.1	238	6 14	+ 8	—	—	—	—
Hirosima	30.3	236	7 5	PPP	12 45	SSS	—	—
Koti	30.5	234	6 8	- 1	—	—	—	—
Kelzjo	30.5	247	e 6 6	- 3	e 11 28	+16	e 15.6	19.3
Matuyama	30.6	235	6 14	+ 4	—	—	—	—
Yingkow	30.7	257	6 8	- 3	11 22	+ 6	—	—
Zinsen	30.7	249	6 16	+ 5	11 28	+12	—	19.5
Husan	31.4	243	6 18	+ 1	13 17	SSS	—	18.6
Simidu	31.4	236	6 25	+ 8	11 31	+ 5	—	—
Hukuoka	31.9	237	5 48	-34	11 31	- 3	e 15.4	23.4
Hukuoka B	31.9	237	6 18	- 4	11 34	0	e 14.1	20.6
Ituhara	32.0	241	6 30	+ 7	—	—	—	—
Dairen	32.3	255	7 38	PPPP	—	—	—	—
Kumamoto	32.4	238	6 23 ^a	- 3	—	—	—	—
Sitka	32.6	61	6 28	0	—	—	—	—
Unzendake	32.7	238	6 34	+ 5	—	—	—	—
Miyazaki	32.8	235	6 29 ^a	- 1	11 55	+ 7	—	—
Titizima	32.8	215	6 35	+ 5	—	—	—	—
Nagasaki	32.9	238	6 25	- 6	11 46	- 3	—	—
Kagosima	33.5	236	6 41	+ 5	12 29	+31	—	—
Tomie	33.5	239	6 32	- 4	—	—	—	—
Chiufeng	34.5	263	i 6 41 ^a	- 4	i 12 2	-12	—	21.0
Nake	36.7	236	7 14	+10	12 57	+10	—	—
Zi-ka-wei	z. 38.3	246	i 7 13	- 5	12 57	-14	20.7	24.4
Nanking	39.0	251	i 7 18	- 6	12 55	-26	20.6	27.0
Naha	39.4	235	7 23	- 4	13 34	+ 9	—	—
Taihoku	43.3	241	e 10 40	PPPP	e 18 54	SSSS	25.0	29.3
Karenko	44.2	240	7 31	-35	—	—	—	—
Seattle	44.4	67	e 8 12	+ 4	e 14 48	+ 7	e 18.5	—
Taiyu	44.5	241	12 55	?	—	—	—	—
Honolulu	45.1	122	8 9	- 5	14 46	- 6	20.0	—
Taito	45.4	240	8 25	+ 9	—	—	—	—
Tainan	45.7	241	15 20	S	(15 20)	+20	—	—
Semipalatinsk	46.9	299	i 8 26	- 2	15 18	+ 1	—	—
Ferndale	48.1	75	e 8 51	+14	e 15 40	+ 6	—	—
Saskatoon	49.0	54	e 8 43	- 1	i 15 54	+ 7	—	—
Hong Kong	49.3	247	8 43	- 3	15 56	+ 5	23.8	31.4
Ukiah	49.7	76	8 50	+ 1	16 10	+13	21.3	—
Butte	50.3	62	8 58	+ 4	16 5	0	21.7	—
Sverdlovsk	51.0	316	i 9 6	+ 7	i 16 30	+15	25.0	—
Berkeley	51.1	77	e 8 58	- 2	e 16 23	+ 7	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
San Francisco	51.1	77	e 9 0	0	16 20	+ 4	—	—
Bozeman	51.4	62	e 9 1	- 1	16 24	+ 4	e 22.1	—
Branner	51.5	77	e 8 57	- 6	—	—	—	—
Lick	51.8	76	e 9 6	+ 1	e 16 27	+ 2	—	—
Manila	52.6	234	i 9 9 _a	- 2	i 16 57	+20	e 26.7	—
Scoresby Sund	53.3	3	9 17 _k	+ 1	17 .0	+14	28.4	—
Almata	53.5	295	9 14	- 4	16 54	+ 5	—	—
Fresno	53.7	76	e 9 20	+ 1	—	—	—	—
Tinemaha	53.8	75	e 9 21	+ 1	e 17 2	+ 9	—	—
Palau	53.9	216	9 19	- 2	16 57	+ 3	—	—
Phu-Lien	54.1	254	e 9 20	- 2	e 17 16	+19	26.4	30.7
Haiwee	54.7	75	e 9 28	+ 2	e 17 22	+17	—	—
Frunse	54.9	296	9 26	- 2	—	—	27.4	—
Mount Wilson	56.1	77	i 9 36	- 1	e 17 15	- 9	—	—
Pasadena	56.1	77	i 9 36	- 1	e 17 25	+ 1	i 23.8	—
Riverside	56.6	77	e 9 41	+ 1	e 17 35	+ 4	—	—
Andijan	57.6	296	e 9 47	0	e 17 59	+15	31.4	—
La Jolla	57.6	77	e 9 45	- 2	—	—	—	—
Tchimkent	57.8	299	e 9 46	- 3	—	—	—	—
Pulkovo	58.2	334	i 9 52	0	i 17 59	+ 7	—	32.0
Tashkent	58.7	298	i 9 53	- 2	18 7	+ 8	30.1	—
Denver	58.8	64	e 10 1	+ 5	i 18 25	+25	e 27.3	36.3
Moscow	59.7	328	i 10 0	- 2	18 16	+ 4	28.9	38.7
Ivigtut	60.0	17	10 5	+ 1	18 27	+11	25.4	—
Upsala	60.8	341	i 10 9	- 1	i 18 22	- 4	e 29.4	40.9
Samarkand	61.1	298	10 14	+ 2	18 22	- 8	—	—
Tucson	61.5	73	i 10 18	+ 3	18 33	- 3	e 27.2	—
Bergen	62.1	348	10 17 _a	- 2	19 2	+19	28.4	41.4
Dehra Dun	62.7	284	11 35	+72	20 35	S _c S	31.7	40.4
Calcutta	63.1	270	10 26	0	19 13	+17	31.0	36.8
Madison	63.5	50	e 10 29	0	e 18 57	- 4	e 26.2	—
Loyola	65.2	51	i 10 40	0	i 19 38	+16	—	—
Agra	65.2	281	10 33	- 7	i 19 23	+ 1	30.5	44.6
Chicago	65.3	51	e 10 39	- 2	i 19 21	- 3	e 27.9	—
Copenhagen	65.6	342	10 41 _a	- 1	19 38	+11	26.4	—
Ann Arbor	66.5	47	i 10 49	0	i 19 43	+ 4	i 27.4	39.8
Florissant	66.5	54	e 10 44	- 5	i 19 37	- 2	—	—
St. Louis	66.7	54	e 10 47	- 3	19 43	+ 2	e 31.1	35.7
Ottawa	67.0	40	e 10 51	- 1	i 19 43	- 2	e 31.4	—
Edinburgh	67.3	352	i 11 10	+16	i 19 57	+ 9	28.4	34.8
Grozny	67.5	315	i 10 57	+ 2	19 58	+ 7	33.4	—
Buffalo	67.9	43	i 10 57	- 1	i 19 55	- 1	—	—
Piatigorsk	67.9	317	i 10 57	- 1	19 57	+ 1	28.3	—
Hamburg	68.1	343	i 10 56 _a	- 3	e 19 57	- 1	e 37.2	42.4
Durham	68.3	350	i 11 1	+ 1	e 20 2	+ 1	—	—
Lemberg	68.7	332	e 11 17	+14	e 20 26	+21	e 28.5	46.8
Vermont	68.7	39	i 11 4	+ 1	i 20 5	0	e 34.2	—
Little Rock	68.9	58	e 11 3	- 1	e 20 6	- 2	e 29.1	32.5
Tiflis	69.2	315	i 11 4	- 2	20 16	+ 5	34.4	48.4
Ithaca	69.3	42	i 11 7	+ 1	i 20 13	0	—	—
Stonyhurst	69.3	351	11 10	+ 4	i 20 19	+ 6	29.4	32.8
Sotchi	69.5	320	i 11 7	- 1	20 19	+ 4	34.4	—
Czernowitz	69.6	331	i 11 0	- 8	20 30	+14	34.5	40.0
Theodosia	69.7	323	i 11 9	0	e 20 21	+ 3	36.4	—
Bidston	69.8	351	i 11 7	- 2	i 20 40	+21	e 28.4	43.6
Göttingen	70.0	343	i 11 9 _k	- 2	i 20 25	+ 4	e 30.4	44.4
Pennsylvania	70.1	44	e 11 12	+ 1	e 19 50	-32	e 28.4	45.2
De Bilt	70.2	346	i 11 12 _a	0	i 20 35	+11	e 31.4	36.3
Rathfarnham Castle	70.2	353	i 10 8	-64	i 20 24	0	28.3	32.4
Simferopol	70.2	324	11 12	0	i 20 26	+ 2	33.4	—

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	L. m.	M. m.
Jena	70.3	341	e	11 10	- 3	i	20 25	0	e 34.0	47.5
East Machias	70.4	35	i	11 12	- 1	i	20 26	0	e 34.9	—
Erevan	70.6	314		11 18	+ 4	e	20 34	+ 6	35.4	—
Prague	70.6	339	i	11 14 _a	0		20 36	+ 8	e 31.4	36.4
Yalta	70.6	324	i	11 14	0	i	20 30	+ 2	32.4	—
Sebastopol	70.7	325		11 15	0	e	20 32	+ 2	33.4	—
Cheb	71.0	341	e	11 17	0	e	20 40	+ 7	e 36.4	44.4
Oak Ridge	71.0	39	i	11 13	- 4		20 45	+12	—	—
Weston	71.2	39	i	11 17	- 1		20 35	0	—	—
Oxford	E. 71.3	350	i	11 17	- 2	i	20 41	+ 4	e 29.9	55.5
	N. 71.3	350	e	11 10	- 9	i	20 52	+15	e 29.9	55.5
Kew	71.5	349	i	11 19	- 1	i	20 45	+ 6	28.4	43.7
Fordham	71.6	41	i	11 19	- 1	i	20 33	- 7	32.5	36.4
Uccle	71.6	346	i	11 18 _a	- 2	i	20 45	+ 5	e 30.4	36.7
Philadelphia	71.9	42	i	11 15	- 7	i	20 25	-19	i 33.3	—
Vienna	72.0	337	i	11 22 _a	- 1		20 50	+ 5	e 32.9	50.9
Budapest	72.1	335	i	11 26	+ 3		20 52	+ 6	32.4	40.9
Hyderabad	72.7	275		11 20	- 7		20 50	- 3	34.2	47.0
Karlsruhe	72.7	343		11 25	- 2		20 59	+ 6	38.7	54.5
Stuttgart	72.8	342		11 27 _a	- 1	e	20 55	+ 1	e 37.4	48.4
Apia	73.0	153	e	11 15	-14	e	20 54	- 3	e 32.8	—
Bucharest	73.1	328	e	11 49	+20		21 1	+ 3	—	46.6
Medan	73.1	250		11 28	- 1	i	20 57	- 1	e 39.4	—
Graz	73.3	337	i	11 25	- 6	i	21 0	0	e 32.4	48.6
Strasbourg	73.3	342	i	11 30	- 1		21 8	+ 8	e 33.4	41.4
Paris	73.8	347	i	11 32	- 1	i	21 12	+ 6	31.4	36.4
Jersey	73.9	350	i	11 39	+ 5	i	21 13	+ 6	37.7	53.4
Basle	74.3	343	e	11 34	- 2	e	21 13	+ 1	—	—
Belgrade	74.3	332	e	11 34 _a	- 2	i	21 19	+ 7	e 39.1	42.2
Zurich	74.3	342	e	11 36 _a	0	e	21 23	+11	—	—
Zagreb	74.4	336	e	11 36 _a	- 1	i	21 16	+ 3	e 39.2	50.9
Bombay	74.6	280	i	11 34	- 4	i	21 17	+ 2	36.4	45.9
Chur	74.6	343	e	11 36	- 2	e	21 2	-13	—	—
Columbia	74.6	50	e	11 35	- 3	e	21 12	- 3	e 32.7	—
Neuchatel	74.9	343	e	11 37	- 3	e	20 29	-50	—	—
Laibach	N.E. 75.0	338	e	11 39	- 1	i	21 25	+ 5	e 38.5	—
Sofia	75.5	330	e	11 44	+ 1	e	21 36	+10	40.6	53.3
Padova	75.6	339	e	11 50	+ 6	i	21 39	+12	e 40.4	50.4
Florence	77.3	340		11 51	+ 3	i	21 46	0	—	—
Batavia	77.5	237		11 49	- 6	i	21 33	-15	e 45.4	—
Tacubaya	N. 78.0	72		11 54	- 3	—	—	—	—	—
Kodaikanal	E. 79.2	272	i	12 0	- 4	i	21 58	- 9	i 38.4	45.0
Ksara	79.5	318	i	12 4 _a	- 1		22 13	+ 3	—	—
Bagnères	79.7	347	e	12 12	+ 6		22 29	+17	e 36.4	50.4
Colombo	80.6	268		12 7	- 4		22 19	- 3	38.2	48.4
Barcelona	81.1	345		12 14	0		22 34	+ 7	37.8	51.3
Capodimonte	E. 81.2	336	e	13 12	+58	e	22 17	-11	29.1	42.4
Merida	N. 81.7	64	i	12 25	+ 8	—	—	—	—	—
Tortosa	E. 81.9	346	e	12 37	+19		22 36	0	e 37.4	48.5
Carloforte	82.3	340		12 1	-19		22 1	-39	—	—
Toledo	83.3	350	i	12 25	0		22 49	- 1	39.9	57.0
Helwan	84.8	319	i	12 30	- 2		22 55	[- 3]	—	65.5
Algiers	85.5	343	i	12 37	+ 1	i	23 14	+ 1	i 41.2	51.4
Granada	85.9	349	i	12 38	0	e	23 2	[- 4]	—	—
Almeria	86.2	348	i	12 46	+ 7	e	23 8	[0]	e 37.6	50.2
San Fernando	86.9	351	i	12 47	+ 4	i	23 29	+ 3	39.9	—
Riverview	90.6	190	i	12 59 _k	- 1	i	23 33	[- 3]	e 42.2	45.1
Sydney	90.7	190	i	23 49	S	(i	23 49)	[+12]	51.6	66.3
Adelaide	93.5	201	e	13 10	- 4	i	23 45	[- 8]	44.1	49.7
San Juan	94.7	45		13 19	0		23 56	[- 3]	e 48.6	—
Arapuni	94.9	171	—	—	—	i	24 31	-10	e 45.1	49.4

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	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	95.3	195	e 13 32	+10	24 37	- 8	47.0	50.1
Perth	96.9	219	17 5	PP	29 55	?	—	—
Wellington	98.0	172	i 21 17	PPPP	e 25 0	- 9	e 41.4	—
Christchurch	100.1	174	i 13 45 _a	+ 1	24 17	[- 9]	47.4	—
Dakar	E. 109.1	1	i 16 20	?	e 28 23	PS	50.4	67.5
Huancayo	117.2	70	e 11 0	?	e 19 21	?	e 47.7	—
Tananarive	119.9	281	e 23 57	?	26 4	[+14]	53.7	67.4
La Paz	124.7	66	15 41	?	25 46	[-18]	55.6	65.4
Rio de Janeiro	E. 141.4	41	e 19 52	[+29]	i 35 7	?	i 57.4	—
	N. 141.4	41	e 19 53	[+30]	i 35 5	?	i 57.4	—
La Plata	145.0	70	19 37	[+ 3]	—	—	61.4	—
Cape Town	147.3	298	i 19 41	[+ 3]	—	—	70.0	81.0

Additional readings :—

Nemuro PP = +4m.19s.

College eP = +5m.25s., iPP = +5m.50s., PPP = +5m.54s., S = +9m.43s., iS = +9m.58s.

Mito i = +7m.5s.

Kanazawa i = +7m.15s.

Toyooka ePZ = +5m.55s., iEN = +6m.47s.

Tu i = +6m.25s.

Osaka i = +6m.54s.

Kobe PZ = +5m.52s., eSEN = +10m.50s.

Sumoto eSZ = +11m.18s.

Keizyo ePPEN = +7m.16s.

Zinsen iPPE = +7m.16s.

Chiufeng eSEN = +12m.20s.

Zi-ka-wei PPZ? = +8m.34s., PPPZ = +9m.3s., PPPPZ? = +9m.14s., SSZ? = +15m.33s., SSSZ? = +16m.19s., SSSSZ = +16m.37s., iZ = +18m.49s. and +19m.57s.

Nanking PP = +8m.59s., SEN = +13m.5s., iZ = +22m.13s.

Seattle e = +8m.37s. and +9m.0s., ePP = +10m.6s., ePPP = +10m.42s., ePP = +11m.6s., e = +11m.40s., e = +13m.8s., eScS = +18m.21s.

Honolulu P = +8m.19s., PP = +10m.19s., e = +10m.31s., iS = +14m.56s., S = +14m.58s., eSS = +18m.15s., SSS = +18m.40s.

Ferndale eN = +9m.1s.

Hong Kong PcP = +10m.5s., PP = +10m.30s., PPP = +12m.52s., ScS = +18m.37s., SS = +19m.25s., SSS = +22m.5s.

Ukiah eSSS = +20m.41s.

Butte PP = +11m.0s., ePPP = +12m.3s., ePS = +17m.0s., SS = +20m.3s.

Berkeley iN = +9m.2s., eE = +16m.9s., eE = +16m.29s., eN = +21m.56s., eE = +21m.59s.

San Francisco ePPPN = +12m.6s., eSE = +16m.28s.

Bozeman PS = +16m.33s. and +16m.48s., e = +17m.43s., eSS = +20m.9s.

Lick eScSE = +19m.5s.

Manila iN = +18m.19s.

Scoresby Sund eN = +10m.31s., PPN = +11m.25s., PPP = +12m.21s., eN = +12m.45s., PcSN = +13m.55s., eE = +17m.36s., ScS = +18m.37s., e = +19m.21s., SS = +20m.49s., SSS = +21m.37s., L_q = +23.4m.

Mount Wilson iPKP, PKPZ = +39m.40s.

Pasadena ePPPNZ = +13m.5s., eSN = +20m.37s., iPKP, PKPZ = +39m.35s.

Denver epPE = +10m.10s., ipPEN = +10m.13s., iPcPEN = +10m.47s., ePPN = +12m.17s., epPPE = +12m.31s., iSPE = +18m.46s.

Upsala PP = +12m.22s., PPP = +13m.57s.

Tucson e = +13m.1s., i = +20m.17s., eSS = +22m.47s., eSSS = +25m.45s.

Bergen P = +10m.20s., ePP = +12m.42s.

Calcutta PPPN = +14m.12s., SSSN = +25m.59s.

Loyola ePP = +13m.15s., iSS = +26m.45s.

Agra PPE = +13m.0s., PPE = +14m.22s., iN = +19m.33s., PSE = +19m.52s., SSE = +23m.58s., SSSE = +26m.18s.

Chicago e = +20m.45s., eSS = +22m.54s., i = +26m.46s.

Copenhagen ePcP = +11m.5s., PP = +13m.11s., PPP = +14m.49s., PcS = +15m.16s., SN = +19m.46s., PS = +20m.5s., ScSE = +20m.49s., eN = +21m.37s., eE = +23m.0s., SSN = +24m.7s.

Ann Arbor epPE = +13m.37s., ePPPN = +15m.1s., i = +21m.1s., eSSN = +24m.1s., eSSE = +24m.49s.

Florissant ipPN = +10m.52s., iPcP = +11m.16s., ePP = +13m.17s., epPP = +13m.29s., ePPP = +14m.36s., epPPP = +14m.53s., iPPPP = +15m.27s., iS = +19m.51s., iSP = +20m.2s., iPPPS = +20m.8s., iSS = +24m.6s.

St. Louis epPN = +10m.55s., iPcPEN = +11m.3s., iPPEN = +12m.25s., iSSN = +24m.16s., iSSN = +24m.44s.

Ottawa PP = +13m.21s., e = +27m.13s.

Edinburgh i = +11m.16s., +12m.39s., 20m.43s., and +21m.33s.

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Buffalo $i = +13m.13s.$, $iPP = +13m.31s.$, $iPPS = +21m.3s.$
Hamburg $ePPEZ = +13m.30s.$, $iSE = +20m.9s.$, $iPSN = +20m.43s.$
Durham $iS = +20m.15s.$
Vermont $i = +12m.14s.$, $iPP = +13m.25s.$, $e = +22m.43s.$, $eSSS = +27m.55s.$
Little Rock $ipPEN = +11m.15s.$, $iPPE = +13m.43s.$, $eSSE = +20m.24s.$
Tiflis $i = +11m.21s.$, $PPPZ = +15m.21s.$, $ePSN = +20m.27s.$, $eSKSN = +21m.2s.$,
 $eSSN = +25m.29s.$, $eSSSN = +28m.16s.$
Ithaca $iEN = +13m.37s.$, $iPPN = +13m.49s.$, $eE = +25m.1s.$, $eEN = +28m.15s.$
Stonyhurst $SS = +23m.35s.$
Czernowitz $i = +11m.8s.$, $PP = +14m.9s.$, $PPP = +15m.54s.$, $SS = +26m.10s.$
Bidston $i = +12m.45s.$, $iPP = +13m.47s.$, $eSS = +25m.22s.$
Göttingen $iEZ = +11m.21s.$, $iPP = +13m.46s.$, $ePPP = +15m.43s.$, $iSN = +20m.35s.$,
 $iPS = +20m.58s.$, $eSSEZ = +25m.13s.$, $eSSN = +25m.43s.$,
 $iSSN = +28m.54s.$
Pennsylvania $iP = +11m.15s.$, $ePP = +13m.50s.$, $ePPP = +15m.37s.$, $eSKS = +21m.6s.$
Philadelphia $iPPP = +15m.43s.$, $e = +18m.52s.$, $iSS = +25m.7s.$, $iSSS = +28m.37s.$
De Bilt $eSS = +25m.7s.$
Rathfarnham Castle $i = +12m.30s.$, $PP = +13m.42s.$, $i = +14m.45s.$ and
 $+21m.7s.$, $SS = +25m.6s.$
Jena $ePE = +11m.13s.$, $ePN = +11m.23s.$, $iPPE = +13m.53s.$, $iPPZ = +13m.50s.$,
 $iSN = +20m.41s.$, $iSZ = +20m.43s.$, $eN = +25m.25s.$
East Machias $i = +12m.1s.$, $e = +13m.31s.$ = $PP - 11s.$, $i = +21m.27s.$, $iSSS = +28m.21s.$
Prague $ePP = +13m.53s.$, $ePPP = +15m.48s.$, $ePPPP = +16m.31s.$, $ePS = +21m.13s.$,
 $eSS = +25m.37s.$
Oak Ridge $eN = +13m.45s.$ = $P_cP - 2s.$, $PPPE = +15m.43s.$, $eN = +20m.21s.$,
 $i = +32m.21s.$
Weston $iPP = +14m.5s.$
Oxford $iN = +25m.48s.$
Kew $iNZ = +12m.49s.$, $iPPZ = +14m.3s.$, $iPPN = +14m.13s.$, $iNZ = +20m.55s.$,
 $eSSEN = +25m.19s.$, $iN = +25m.48s.$
Fordham $iPP = +13m.57s.$, $ipPPP = +15m.47s.$, $iSP = +21m.26s.$, $isSP = +21m.39s.$,
 $e = +23m.36s.$, $isSS = +25m.49s.$, $i = +27m.35s.$ and $+30m.48s.$
Uccle $iSSE = +25m.25s.$
Philadelphia $iPPP = +15m.43s.$, $e = +18m.52s.$, $iSS = +25m.7s.$, $iSSS = +28m.37s.$
Vienna $e = +11m.41s.$, $PP = +14m.36s.$, $PPP = +15m.55s.$, $S_cS = +21m.31s.$,
 $SS = +25m.52s.$, $SSS = +29m.7s.$
Budapest $iE = +11m.58s.$, $iN = +12m.4s.$, $+12m.12s.$, $= +12m.24s.$ and
 $+12m.36s.$, $iE = +12m.46s.$, $PPEN = +14m.2s.$, $eN = +14m.28s.$, $i = +15m.10s.$
and $+16m.0s.$, $SE = +20m.56s.$, $PSN = +21m.14s.$, $S_cSN = +21m.32s.$,
 $iE = +22m.0s.$ and $+26m.12s.$
Stuttgart $i = +11m.36s.$, $ePP = +14m.9s.$, $ePPP = +16m.3s.$, $iPS = +21m.35s.$,
 $eSS = +25m.55s.$
Apia $ePP = +14m.3s.$, $eSS = +25m.35s.$, $e = +30m.25s.$?
Bucharest $PPEN = +14m.16s.$
Medan $iN = +22m.15s.$
Graz $iP_cP = +11m.51s.$, $iPP = +14m.19s.$, $iPPP = +16m.19s.$, $iPS = +21m.31s.$,
 $iSS = +27m.15s.$
Strasbourg $i = +12m.24s.$, $iPP = +14m.15s.$, $PPP = +16m.0s.$, $PPPP = +17m.15s.$,
 $iPS = +21m.55s.$, $i = +22m.40s.$ and $+23m.46s.$, $iSS = +25m.55s.$,
 $SSS = +30m.0s.$
Jersey $PP? = +16m.0s.$, $PS? = +21m.40s.$, $SS? = +26m.8s.$, $SSS = +29m.0s.$
Belgrade $iNE = +14m.17s.$ = $PP + 2s.$ and $+16m.19s.$, $iSNW = +21m.23s.$
Zagreb $i = +11m.46s.$, $ePP = +14m.19s.$, $ePPP = +16m.8s.$, $i = +21m.25s.$,
 $eNEZ = +26m.55s.$, $eNW = +30m.28s.$ = $SSSS - 4s.$, $eNE = +32m.21s.$,
 $eZ = +32m.42s.$, $eNW = +34m.13s.$
Bombay $PPEN = +14m.23s.$, $PSEN = +21m.41s.$, $SSEN = +26m.5s.$, $SSSEN = +29m.39s.$
Columbia $e = +12m.18s.$ and $+21m.0s.$, $S = +21m.26s.$ = $SSS - 5s.$, $e = +28m.51s.$,
 $SSS = +30m.12s.$
Lalbach $iNE = +12m.34s.$ and $+16m.23s.$
Sofia $SP = +22m.10s.$
Batavia $iN = +21m.52s.$
Kodalkanal $iPPE = +15m.5s.$, $iPPPE = +16m.59s.$, $iPSE = +22m.51s.$, $iSSE = +27m.34s.$,
 $iSSSE = +31m.2s.$
Ksara $PP = +15m.11s.$, $iPS = +22m.55s.$
Bagnères $ePPN = +15m.24s.$, $iPPPE = +17m.8s.$, $iN = +23m.35s.$, $SSN = +28m.5s.$
Barcelona $PS = +23m.21s.$
Toledo $P_cPZ = +12m.30s.$, $PPZN = +15m.47s.$, $PPPE = +17m.43s.$, $SEN = +22m.56s.$,
 $S_cSE = +23m.10s.$, $PSEN = +23m.47s.$, $SSZ = +28m.42s.$,
 $PKKPZ = +30m.16s.$, $GE = +35m.55s.$, $SKKSE = +37m.20s.$, $PKP, PKPZ = +38m.36s.$,
 $PKPPKSN = +42m.15s.$
Helwan $PP = +15m.55s.$, $PS = +23m.55s.$

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Algiers $i = +13m.26s.$, $iPP = +15m.58s.$, $iPPP = +17m.59s.$, $PS = +24m.10s.$,
 $SS = +29m.5s.$, $SSS = +32m.55s.$
 San Fernando $PP = +16m.43s.$, $PPP = +18m.21s.$, $SKS = +22m.31s.$, $SSS = +32m.27s.$
 Riverview $iE = +13m.21s.$, $eE = +23m.52s.$, $iN = +24m.0s.$, $eLqE = +38.1m.$
 Sydney $e = +21m.55s.$, $iS = +34m.10s.$
 Adelaide $iPP? = +16m.53s.$, $i = +20m.20s. = PPPP + 3s.$ and $+23m.25s.$, $iS = +24m.4s.$, $i = +24m.27s.$, $+25m.44s.$, $+26m.46s.$, $+30m.47s.$, $+37m.33s.$, and $+38m.13s.$
 San Juan $i = +13m.56s.$ and $+16m.16s.$, $ePP = +16m.59s.$, $iPP = +17m.14s.$, $i = +17m.46s.$, $e = +18m.22s.$, $PPP = +19m.22s.$, $eS = +24m.2s.$ and $+24m.30s.$, $SKKS = +24m.46s.$, $S = +24m.54s.$, $PS = +25m.3s.$ and $+25m.20s.$, $eSS = +31m.4s.$, $e = +32m.24s.$ and $+38m.20s.$
 Arapuni $i = +39m.25s.$
 Melbourne $e = +14m.35s.$ and $+23m.48s.$, $SS = +31m.39s.$
 Perth $? = +24m.10s.$, $S = +30m.25s.$, $? = +35m.25s.?$
 Wellington $e = +24m.13s.$ and $+25m.54s.$
 Christchurch $PPNZ = +17m.47s.$, $iNZ = +23m.51s.$, $iS = +25m.16s.$, $PS = +26m.33s.$, $SSEN = +32m.11s.$, $SSSN = +35m.59s.$, $GE = +41m.13s.$
 Dakar $ePPE = +20m.19s.$, $ePPPE = +22m.15s.$, $eSKKSE = +27m.32s.$, $iPS = +29m.49s.$, $ePPS = +30m.54s.$, $eSSS = +39m.13s.$
 Huancayo $ePP = +14m.58s.$, $ePPP = +17m.20s.$, $ePPP = +18m.0s.$, $e = +19m.30s.$, $SKS = +21m.13s.$, $ePS = +24m.7s.$, $SS = +29m.36s.$, $eSS = +31m.20s.$, $e = +35m.51s.$, $SSS = +36m.27s.$
 Tananarive $S = +27m.53s.$, $N = +32m.24s.$, $E = +32m.33s.$, $SSN = +36m.27s.$, $E = +37m.25s.?$, $SSS = +40m.55s.$
 La Paz $iPKPZ = +18m.57s.$, $iPPZ = +20m.50s.$, $SKPZ = +24m.18s.$, $SSN = +37m.13s.$, $SSSE = +41m.13s.$
 Rio de Janeiro $iPE = +22m.49s.$, $iPN = +22m.51s.$, $iSSE = +40m.44s.$
 Cape Town $iN = +19m.50s.$, $iE = +19m.55s.$, $iPP = +23m.17s.$, $i = +23m.48s.$, $iE = +24m.20s.$, $iN = +33m.55s.$, $iE = +33m.58s.$, $iPPSN = +35m.55s.$, $eSSE = +42m.5s.$, $iPSSN? = +42m.58s.$, $iPSS?E = +43m.4s.$, $iSSSN = +47m.44s.$
 Long waves were also recorded at Santiago and Soengei Langka.

Nov. 13d. Readings also at 0h. (Vladivostok, Hong Kong, Nanking, Baku, Tiflis, Sverdlovsk, Semipalatinsk, Ksara, Bombay, Calcutta, Hyderabad, Copenhagen, Moscow, Pulkovo, and De Bilt), 1h. (East Machias), 7h. (San Juan), 10h. (Kodaikanal and Medan), 11h. (near Nanking), 12h. (Mount Wilson, Pasadena, Tinemaha, and near Sumoto), 13h. (Erevan, Tiflis, Haiwee, La Jolla, Mount Wilson (5), Pasadena (5), Tinemaha, and near Tananarive), 14h. (Apia, Mount Wilson, and Pasadena), 15h. (Almata, Frunse, near Andijan, and near Hastings), 16h. (Tiflis, Balboa Heights, and Mount Wilson), 17h. (Mount Wilson and Pasadena), 19h. (near Branner), 20h. (Mount Wilson, Pasadena, Sverdlovsk, and Tashkent), 21h. (Baku, Frunse, and near Andijan), 22h. (Mount Wilson, Pasadena, Baku, Tashkent, Tiflis, Pulkovo, Sverdlovsk, Ksara, and Chiufeng).

Nov. 14d. 0h. 57m. 48s. Epicentre $37^{\circ}5N$. $145^{\circ}0E$. (as on 1933 Mar. 14d.). X.

$A = -.6499$, $B = +.4550$, $C = +.6088$; $\delta = +3$;
 $D = +.574$, $E = +.819$; $G = -.499$, $H = +.349$, $K = -.793$.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa		3.4	299	i 0 45	- 4	1 22	- 5	—	—
Nagoya		6.9	253	e 1 42	+ 4	2 58	+ 2	—	3.5
Toyooka	E.	8.4	259	1 58	- 1	3 32	- 2	—	—
	N.	8.4	259	e 2 8	+ 9	3 42	+ 8	—	—
	Z.	8.4	259	2 3	+ 4	3 33	- 1	—	—
Kobe	E.	8.4	253	e 1 58	- 1	3 41	+ 7	—	4.3
	N.	8.4	253	e 2 1	+ 2	3 36	+ 2	—	4.6
Sumoto	E.	8.8	252	e 2 4	- 1	e 3 38	- 6	—	4.7
	N.	8.8	252	e 2 3	- 2	e 3 43	- 1	—	5.0
Vladivostok		11.4	303	e 2 42	+ 2	—	—	5.7	6.9
Hukuoka B		12.5	256	e 3 18	+ 23	e 5 21	+ 6	—	—
Husan		13.1	264	e 3 0	- 3	e 7 11	L	(e 7.2)	—
Keizyo	E.	14.3	276	e 3 15	- 4	e 6 49	?	e 8.4	—
Zi-ka-wei		20.4	260	—	—	e 7 43	-31	(12.6)	—
Nanking		22.1	264	e 4 49	- 3	e 8 49	+ 1	e 12.2	14.7

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Chiufeng		22.6	287	e 5 5	+ 8	e 8 41	-16	—	13.3
Sverdlovsk		56.4	319	9 54	+15	e 17 41	+13	30.2	34.7
Tashkent		56.7	299	—	—	e 18 37	+65	e 28.2	33.1
Tiflis	E.	72.5	310	e 11 26	0	e 21 47	+56	e 39.2	47.0
Mount Wilson	Z.	74.7	58	i 12 6	+27	—	—	—	—
Pasadena	Z.	74.7	58	e 11 56	+17	—	—	—	—
Ksara		82.9	307	i 12 31	+ 8	e 23 38	[+52]	—	—

Additional readings:—

Tashkent e = +22m.12s.

Ksara e = +17m.26s.

Long waves were also recorded at Hong Kong, Phu-Lien, Calcutta, Baku, Pulkovo, Moscow, Copenhagen, De Bilt, Cheb, Stuttgart, and Oak Ridge.

Nov. 14d. 1h. Epicentre probably in sea somewhere south of Japan.

Hukuoka B eP = 25m.7s., eS = 26m.7s.

Hukuoka eP? = 25m.13s., eS? = 26m.2s.

Sumoto PEN = 25m.27s., SE = 27m.22s., SN = 27m.25s., M = 27m.49s.

Kobe ePZ = 25m.36s., ePN = 25m.39s., ePE = 25m.41s., eSZ = 27m.16s., eSN = 27m.20s., M = 27m.45s.

Toyooka PZ = 25m.50s., PEN = 25m.56s., iN = 26m.53s., SN = 27m.40s.

Husan eP = 26m.3s., eS = 27m.12s.

Nagoya e = 27m.55s.

Keizyo eP = 28m.29s.

Zinsen eSEN = 29m.1s.

Ksara e = 39m.36s. and 50m.24s.

Long waves were also recorded at Hong Kong, Chiufeng, Nanking, Tiflis, De Bilt, Paris, and Strasbourg.

Nov. 14d. 1h. 37m. 8s. Epicentre 13°·5N. 92°·5W. (as on 1936 Sept. 3d.) X.

A = -·0424, B = -·9714, C = +·2334; $\delta = -11$;

D = -·999, E = +·044; G = -·010, H = -·233, K = -·972.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	N.	8.0	20	2 1	+ 8	—	—	—	—
Tacubaya	N.	8.8	313	1 58?	- 7	—	—	—	—
Little Rock	N.	21.3	2	e 4 47	+ 4	—	—	—	—
Columbia		23.0	25	e 4 59	- 2	—	—	e 13.0	—
Tucson		25.2	321	e 5 23	+ 1	e 9 44	0	e 12.8	—
St. Louis	E.	25.2	4	e 5 14	- 8	e 10 24	+40	—	—
Florissant		25.4	4	e 4 26	-58	e 9 55	+ 7	—	20.9
San Juan		25.8	76	e 5 16	-11	(e 10 4)	+ 9	e 16.9	—
Philadelphia		30.5	27	—	—	e 12 20	+68	e 18.3	—
Huancayo		30.7	146	e 8 16	PPP	e 11 56	+40	e 14.5	—
Mount Wilson	Z.	31.1	316	e 6 14	- 1	i 11 47	+26	—	—
Pasadena		31.1	316	e 6 13	- 2	e 9 16	?	e 15.7	—
Tinemaha		32.9	320	e 6 32	+ 1	—	—	—	—

Additional readings:—

Columbia ePP = +5m.18s.

St. Louis eE = +5m.46s.

Florissant iP = +4m.28s., eE = +10m.16s., eEN = +10m.28s.

San Juan S is given as additional eL.

Mount Wilson iZ = +9m.47s.

Long waves were also recorded at Oaxaca, La Paz, and Seattle.

Nov. 14d. 9h. 29m. 10s. Epicentre 55°·4N. 162°·7E. (as on 1931 Jan. 12d.) R.2.

A = -·5422, B = +·1689, C = +·8231; $\delta = 0$;

D = +·297, E = +·955; G = -·786, H = +·245, K = -·568.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	21.7	231	—	—	9 6	+26	—	—
College		25.6	48	5 27	+ 2	(e 9 56)	+ 5	e 9.9	—
Chiufeng		34.0	266	—	—	e 15 8	?	—	21.2
Nanking		38.4	251	—	—	e 17 13	?	e 20.8	—
Sverdlovsk		51.4	318	9 11	+ 9	16 37	+17	24.8	31.3

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tinemaha		54.4	76	e 9 23	- 1	—	—	—	—
Haiwee	N.	55.2	77	e 9 30	0	—	—	—	—
Mount Wilson	Z.	56.6	79	i 9 38	- 2	—	—	—	—
Pasadena		56.6	79	i 9 38 _a	- 2	—	—	—	—
La Jolla		58.1	79	e 9 50	- 1	—	—	—	—
Pulkovo		58.8	335	e 9 53	- 3	—	—	32.8	38.8
Tashkent		58.8	300	e 10 28	+32	—	—	e 30.3	37.8
Moscow		60.2	329	i 10 6	0	—	—	—	—
Grozny		67.8	316	i 11 2	+ 5	—	—	45.3	—
Baku		68.6	313	e 11 4	+ 2	e 20 47	+43	34.2	45.9
Tiflis		69.6	316	11 9	+ 1	e 20 17	+ 1	35.8	47.3
Simferopol		70.7	325	e 11 18	+ 3	—	—	—	—
Yalta		71.1	325	e 11 17	0	—	—	e 30.8	—
Vienna	Z.	72.5	338	e 11 20?	- 6	—	—	—	—
Zurich		75.0	343	e 11 38	- 2	—	—	—	—
Neuchatel		75.6	345	e 11 42	- 2	—	—	—	—
Ksara		79.9	319	i 12 8 _a	+ 1	e 22 16	+ 1	—	53.8

Additional readings :—

Tashkent e = +13m.1s. and +22m.2s.

Tiflis ePSN = +20m.38s., eSKSE = +21m.9s., eSSSE = +28m.35s.

Ksara ePS = +22m.59s.

Long waves were also recorded at Hong Kong, Agra, Calcutta, and Copenhagen.

Nov. 14d. 14h. 29m. 47s. Epicentre 55°·4N. 162°·7E. (as at 9h.). R.2.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	21.7	231	(5 8)	+20	5 8	P	—	—
Vladivostok		23.2	251	—	—	e 7 9	?	12.1	14.9
College		25.6	48	—	—	(e 9 49)	- 2	e 9.8	—
Nagoya		26.8	232	e 5 58	+22	—	—	—	—
Chiufeng		34.0	266	e 8 8	PPPP	e 12 27	+21	—	27.3
Zi-ka-wei	Z.	37.7	247	e 7 58	+46	e 9 39	?	—	25.8
Nanking		38.4	251	—	—	e 17 7	SeS	e 21.0	27.2
Sverdlovsk		51.4	318	i 9 9	+ 7	16 30	+10	27.9	32.1
Tinemaha		54.4	76	e 9 29	+ 5	—	—	—	—
Frunse		55.0	296	e 9 31	+ 2	—	—	—	—
Haiwee	N.	55.2	77	e 9 34	+ 4	—	—	—	—
Mount Wilson	Z.	56.6	79	e 9 38	- 2	—	—	—	—
Pasadena	Z.	56.6	79	e 9 39	- 1	—	—	—	—
Andijan		57.6	298	e 9 37	-10	—	—	e 30.6	—
La Jolla		58.1	79	e 9 55	+ 4	—	—	—	—
Tashkent		58.8	300	e 9 29	-27	—	—	e 29.7	37.5
Pulkovo		58.8	335	9 51	- 5	18 6	+ 6	30.2	36.5
Moscow		60.2	329	i 10 3	- 3	e 18 21	+ 2	33.7	42.4
Calcutta	N.	62.8	273	—	—	e 19 36	+44	i 37.5	—
Agra	E.	65.0	283	—	—	e 19 18	- 2	—	—
Copenhagen		66.2	344	10 44	- 3	—	—	36.2	—
Grozny		67.8	316	11 59	+62	—	—	41.2	—
Tiflis		69.6	316	11 5	- 3	e 20 13	- 3	35.7	47.4
Little Rock	N.	69.6	58	e 11 8	0	—	—	—	—
Theodosia		70.2	325	e 11 11	- 1	—	—	e 42.2	—
Simferopol		70.7	325	e 11 13	- 2	—	—	—	—
Yalta		71.1	325	e 11 13	- 4	—	—	e 40.2	—
Sebastopol		71.2	325	e 11 21	+ 3	—	—	—	—
Bombay		74.4	282	—	—	e 21 13?	0	—	—
Zurich		75.0	343	e 10 37	-63	—	—	—	—
Ksara		79.9	319	i 12 6 _a	- 1	—	—	—	53.7

Additional readings :—

Mount Wilson iZ = +9m.45s.

Pasadena iZ = +9m.45s.

Tashkent e = +9m.52s., PP = +11m.57s., e = +12m.13s., +13m.50s., and +25m.1s.

Tiflis ePPPE = +15m.29s., eE = +32m.45s.

Ksara ePS = +22m.56s.

Long waves were also recorded at Baku, Strasbourg, Stuttgart, Cheb, Hyderabad, Hong Kong, and Phu-Lien.

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Nov. 14d. 19h. 4m. 4s. Epicentre $40^{\circ} \cdot 2N$. $75^{\circ} \cdot 2E$. X.
(as on 1936 June 22d, and near $40^{\circ} \cdot 1N$. $75^{\circ} \cdot 8E$. suggested by the stations).

A = +.1951, B = +.7385, C = +.6455; $\delta = +12$;
D = +.967, E = -.255; G = +.165, H = +.624, K = -.764.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Andijan	2.3	284	e 0 31	- 2	i 0 58	- 1	1.2
Frunse	2.7	350	e 0 52	P _g	i 1 37	S _g	1.7
Almata	3.3	22	1 4	P _g	i 2 7	S _g	2.2
Tchimkent	4.6	286	e 1 23	P _g	—	—	—
Samarkand	6.3	268	e 1 56	P _g	—	—	—

Additional readings:—

Andijan iP_g = +35s., iPP = +44s., iS_g = +1m.1s.
Frunse eP_g = +57s., PP = +1m.3s., e = +1m.13s., PS = +1m.20s.
Almata iPP = +1m.20s.

Nov. 14d. 19h. 28m. 30s. Epicentre $55^{\circ} \cdot 4N$. $162^{\circ} \cdot 7E$. (as at 14h.). R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 21.7	231	(5 5)	+17	5 5	P	—	—
Vladivostok	23.2	251	—	—	e 10 19	+71	12.1	15.0
College	25.6	48	e 5 36	+11	(e 9 54)	+ 3	e 9.9	—
Chiufeng	34.0	266	e 8 10	PPPP	e 12 25	+19	—	21.4
Zi-ka-wei	z. 37.7	247	e 9 15	?	—	—	—	28.9
Nanking	38.4	251	—	—	e 17 10	S _c S	e 21.2	27.0
Semipalatinsk	47.0	300	e 8 34	+ 5	—	—	—	—
Sverdlovsk	51.4	318	i 9 9	+ 7	16 32	+12	33.0	33.5
Tinemaha	54.4	76	e 9 26	+ 2	—	—	—	—
Frunse	55.0	296	e 9 30	+ 1	—	—	—	—
Haiwee	N. 55.2	77	e 9 34	+ 4	—	—	—	—
Mount Wilson	56.6	79	i 9 41	+ 1	—	—	—	—
Pasadena	z. 56.6	79	e 9 39	- 1	—	—	—	—
Andijan	57.6	298	e 10 47	+60	—	—	—	—
La Jolla	58.1	79	e 9 53	+ 2	—	—	—	—
Tashkent	58.8	300	i 9 52	- 4	18 4	+ 4	e 29.5	37.9
Pulkovo	58.8	335	9 49	- 7	e 18 2	+ 2	31.5	38.5
Moscow	60.2	329	10 4	- 2	18 27	+ 8	34.0	42.4
Calcutta	N. 62.8	273	—	—	e 18 54	+ 2	i 34.9	37.6
Agra	E. 65.0	283	—	—	e 19 9	-11	—	—
Copenhagen	66.2	344	10 45	- 2	—	—	31.5	—
Grozny	67.8	316	11 0	+ 3	e 20 20	+26	44.5	—
Baku	68.6	313	e 11 4	+ 2	e 20 11	+ 7	33.9	46.0
Tiflis	69.6	316	11 4	- 4	e 20 16	0	37.0	47.2
Theodosia	70.2	325	e 11 8	- 4	—	—	39.5	—
Simferopol	70.7	325	e 11 14	- 1	—	—	—	—
Yalta	71.1	325	e 11 9	- 8	—	—	e 40.5	—
Sebastopol	71.2	325	e 11 17	- 1	—	—	—	—
Bombay	74.4	282	—	—	e 21 30?	+17	—	—
Zagreb	74.9	338	e 11 38	- 2	—	—	—	—
Ksara	79.9	319	i 12 7a	0	e 22 18	+ 3	—	54.2

Additional readings:—

Sverdlovsk L_a = +26.9m.
Tiflis eSKKS = +21m.23s., eSSSN = +28m.16s., eE = +32m.42s.
Long waves were also recorded at Hong Kong, Phu-Lien, Hyderabad, and Cheb.

Nov. 14d. Readings also at 0h. (La Paz), 2h. (Hong Kong, Hukuoka B, and near Manila), 3h. (Mount Wilson, Pasadena, Wellington, and near Apia), 4h. (Agra, Bombay, Calcutta, Colombo, Kodaikanal, Sverdlovsk (2), Vladivostok, Ksara (2), Mount Wilson, and Pasadena), 5h. (Batavia, Nanking, Baku, Tashkent, Tiflis, Pulkovo, Copenhagen, Mount Wilson, Pasadena, La Paz, and near Apia), 10h. (Nanking and near Tiflis), 13h. (near Balboa Heights), 16h. (Budapest), 18h. (near Mizusawa and Nagoya), 20h. (Andijan and near Samarkand), 21h. (College), 22h. (Almeria, near Granada, and Toledo).

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Nov. 15d. 21h. 50m. 16s. Epicentre 20°·5S. 177°·5W. N.2.

A = -·9358, B = -·0409, C = -·3502; $\delta = +3$;
D = -·044, E = +·999; G = +·350, H = +·015, K = -·937.

Correction for depth of focus 0·070 has been applied.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Apia	-0·4	8·6	40	e 2	8	+12	3	42	+13	—	—
Wellington	-3·1	21·8	197	7	40	S	(7	40)	0	—	—
Melbourne	-5·0	36·7	235	i 6	23	+ 3	i 11	33	+ 2	—	15·0
Honolulu	-5·9	46·0	27	—	—	—	e 13	48	+10	—	—
Perth	-7·0	60·0	245	15	44?	S	(15	44?)	-58	—	—
Numadu	-7·6	69·3	324	10	19	+ 3	—	—	—	—	—
Hunatu	-7·7	69·7	324	9	49	-29	—	—	—	—	—
Manila	-7·7	69·9	296	10	24	+ 4	18	50	+ 5	—	—
Maebasi	-7·7	70·1	325	10	20	- 1	—	—	—	—	—
Oiwake	-7·7	70·4	325	10	29	+ 6	18	58	+ 7	—	—
Nagano	-7·7	70·8	325	10	28	+ 2	—	—	—	—	—
Miyazaki	-7·8	71·7	317	10	34	+ 3	19	14	+ 8	—	—
Kumamoto	-7·9	72·7	317	10	38	+ 1	—	—	—	—	—
Batavia	-8·0	74·4	270	i 10	49	+ 1	i 19	39	+ 2	—	—
Sanata Barbara	-8·1	77·7	47	i 11	10	+ 2	—	—	—	—	—
Berkeley	-8·1	78·1	43	e 11	10	- 1	e 20	24	+ 3	—	—
Zi-ka-wei	z. -8·1	78·1	311	e 11	8	- 3	e 20	56	+35	e 38·4	64·1
Ukiah	-8·1	78·3	41	e 12	54	+102	e 20	26	+ 2	—	—
Pasadena	-8·1	78·5	48	i 11	12k	- 1	e 20	30	+ 4	—	—
Mount Wilson	-8·1	78·7	48	e 11	14	0	—	—	—	—	—
Vladivostok	-8·2	78·8	325	e 11	9	- 5	e 20	32	+ 4	—	—
Riverside	-8·2	79·0	48	e 11	14	- 2	—	—	—	—	—
Fresno	N. -8·2	79·0	45	e 11	16	0	—	—	—	—	—
Hong Kong	-8·2	79·2	300	i 11	14	- 3	20	34	+ 1	—	33·6
Haiwee	N. -8·2	79·8	46	e 11	22	+ 2	—	—	—	—	—
Tinemaha	-8·2	80·2	45	e 11	22	- 1	e 20	48	+ 3	—	—
Nanking	-8·2	80·5	310	i 11	24	- 1	20	46	- 2	—	—
Tucson	-8·3	82·7	53	e 11	38	+ 1	e 21	15	+ 2	e 34·6	—
Phu-Lien	-8·4	84·9	295	e 11	44?	- 5	—	—	—	—	—
Chiufeng	-8·5	86·5	316	i 11	51k	- 6	i 21	45	- 9	—	—
College	-8·5	88·4	12	—	—	—	(e 20	50)	-85	e 20·8	—
Huancayo	-8·7	96·9	106	—	—	—	22	35	- 4	e 28·1	—
Calcutta	N. —	101·4	291	—	—	—	i 23	39	[-54]	i 48·8	74·6
Kodaikanal	E. —	107·5	275	e 17	44?	[-26]	—	—	—	—	—
Agra	E. —	111·6	292	—	—	—	i 27	16	{+58}	—	—
Bombay	—	114·3	283	e 20	44?	PP	—	—	—	—	—
San Juan	—	115·7	79	e 22	25	PPP	23	46	PPPP	—	—
Tashkent	—	120·6	307	i 17	48	[-59]	—	—	—	—	—
Sverdlovsk	—	124·3	326	e 18	10	[-46]	—	—	—	—	—
Grozny	—	137·4	312	18	34	[-44]	i 22	20	PP	—	—
Tiflis	—	138·6	310	e 18	32	[-48]	—	—	—	—	—
Piatigorsk	—	139·0	315	e 18	29	[-51]	—	—	—	—	—
Sotchi	—	141·4	316	e 18	30	[-53]	—	—	—	—	—
Theodosia	—	143·5	321	i 18	40	[-49]	—	—	—	—	—
Copenhagen	—	144·0	351	i 18	41	[-50]	—	—	—	—	—
Simferopol	—	144·3	322	i 18	43	[-49]	i 20	58	?	—	—
Yalta	—	144·5	321	i 18	42	[-51]	—	—	—	—	—
Sebastopol	—	144·8	322	i 18	46	[-47]	—	—	—	—	—
Kaara	—	147·6	301	i 18	47k	[-51]	—	—	—	—	—
De Bilt	z. —	148·3	358	i 18	55	[-44]	—	—	—	—	—
Jena	—	148·7	349	e 18	51	[-49]	—	—	—	—	—
Prague	E. —	149·0	346	e 18	56	[-44]	—	—	—	—	—
Uccle	z. —	149·7	359	e 18	54	[-47]	—	—	—	—	—
Vienna	z. —	150·1	342	i 18	53k	[-49]	e 21	0	?	—	—
Stuttgart	z. —	151·2	351	i 19	0k	[-43]	e 21	4	?	—	—

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	—	151.6	352	e 19 1	[-43]	—	—	e 44.7	—
Sofia	—	151.7	326	e 19 4	[-40]	—	—	—	—
Zagreb	—	152.4	339	e 18 55	[-50]	e 20 53	?	—	—
Basle	—	152.7	353	e 18 56	[-49]	—	—	—	—
Zurich	—	152.7	352	e 18 55k	[-50]	—	—	—	—
Chur	—	153.0	351	e 18 58	[-48]	—	—	—	—
Neuchatel	—	153.3	353	e 18 57	[-49]	—	—	—	—
Toledo	—	159.8	16	i 19 6	[-48]	25 15	?	—	—

Additional readings :—

Apia $P_cP = +8m.8s.$; $T_0 = 21h.50m.20s.$
 Wellington $i = +7m.46s., +7m.53s.,$ and $+7m.57s.$
 Melbourne $i = +9m.2s.$ and $+14m.44s.$
 Honolulu $e = +31m.14s.$
 Batavia $iN = +15m.55s.$
 Santa Barbara $epPZ = +13m.0s.$
 Berkeley $iZ = +11m.21s.$ and $+13m.0s., eZ = +13m.56s., eE = +20m.27s.$
 Ukiah $esS = +23m.50s.$
 Pasadena $ipPEZ = +13m.5s., isPZ = +14m.18s., ePKP, PKPZ? = +38m.14s.$
 Vladivostok $e = +13m.12s., +14m.7s., +17m.0s.,$ and $+21m.5s.$
 Chiufeng $iEZ = +13m.50s., PP = +14m.43s.$
 Huancayo $S = +23m.9s., e = +23m.33s.,$ and $+27m.0s.$
 Calcutta $iN = +26m.34s.$ and $+34m.57s.$
 San Juan $e = +27m.32s.$
 Tashkent $i = +32m.7s., e = +34m.56s.$ and $+39m.20s.$
 Sverdlovsk $i = +18m.13s.$ and $+20m.3s.$
 Tiflis $eZ = +20m.38s., eEN = +22m.10s., eN = +30m.56s.$ and $+32m.17s.$
 Ksara $ipPKP = +20m.55s., sPKP = +21m.47s., PP = +22m.13s., pPP = +24m.11s., sPP = +25m.15s., SPP = +33m.51s.$
 Jena $i = +18m.56s.$
 Prague $eZ = +19m.3s., iZ = +19m.8s.$ and $+21m.13s.$
 Toledo $i = +19m.49s., pPZ = +21m.16s., sPZ = +21m.48s., pPPE = +25m.44s., isPSN = +37m.56s., SSN = +42m.59s., eSSN = +46m.10s., SSSN = +49m.48s.$

Nov. 15d. 22h. 20m. 57s. Epicentre $54^\circ 0'N. 170^\circ 0'E.$ (as on 1925 Sept. 5d.). R.1.

$A = -.5789, B = +.1021, C = +.8090;$ $\delta = +3;$
 $D = +.174, E = +.985;$ $G = -.797, H = +.140, K = -.588.$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
College		23.5	45	e 4 23	-42	8 43	-31	e 11.8	—
Mizusawa	E.	24.5	244	e 5 14	-1	e 9 40	+8	—	—
	N.	24.5	244	e 5 12	-3	e 9 35	+3	—	—
Vladivostok		27.0	262	e 5 41	+3	—	—	12.6	21.2
Maebasi		27.6	244	6 1	+17	10 34	+9	—	—
Nagano		27.9	245	5 48	+2	10 3	-27	—	—
Oiwake		28.0	244	5 49	+2	10 27	-5	—	—
Chiufeng		38.2	272	i 7 17 ^a	0	13 10	+1	i 16.2	21.6
Nanking		42.1	261	7 50	+1	14 8	0	19.1	31.7
Berkeley	E.	47.7	81	—	—	e 15 25	-4	—	—
Tinemaha		50.6	79	e 8 55	-1	—	—	—	—
Semipalatinsk		51.3	306	e 8 23	-38	—	—	—	—
Halwee	N.	51.4	79	e 9 5	+3	—	—	—	—
Santa Barbara	Z.	51.6	83	e 9 5	+2	—	—	—	—
Hong Kong		52.2	257	9 7	-1	16 33	+2	—	35.6
Mount Wilson	E.	52.7	82	e 9 9	-3	—	—	—	—
Pasadena		52.7	82	i 9 8	-4	e 16 37	-1	e 26.8	—
Scoresby Sund		55.2	6	—	—	18 6	+54	29.0	—
Sverdlovsk		55.2	322	i 9 42	+12	i 17 30	+18	35.0	36.4
Tucson		58.3	77	e 9 49	-3	e 17 59	+6	27.2	—
Frunse		59.3	302	e 8 59	-61	—	—	—	—
Pulkovo		61.8	339	10 16	-1	e 18 45	+6	33.0	40.8
Andijan		62.0	302	e 10 9	-9	—	—	e 35.0	—
Tashkent		63.1	305	i 10 24	-2	i 19 5	+9	32.6	40.2
Moscow		63.6	333	e 10 29	0	19 6	+4	36.6	41.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chicago	63.6	56	e 16 33	?	e 18 55	- 7	33.0	—
Florissant	64.5	59	e 10 31	- 4	e 19 1	-13	e 31.4	42.8
St. Louis	64.7	59	e 10 34	- 3	—	—	—	—
Little Rock	66.6	63	e 10 45	- 4	—	—	—	—
Copenhagen	68.8	348	11 4	+ 1	—	—	39.0	—
Weston	70.3	44	i 11 11	- 2	—	—	—	—
Grozny	71.7	321	11 26	+ 5	—	—	45.6	—
Piatigorsk	72.0	323	11 23	0	—	—	—	—
Baku	72.6	317	i 11 28	+ 2	e 21 11	+19	36.0	48.6
Tiflis	73.4	321	i 11 31	0	e 21 7	+ 6	e 34.0	50.2
Jena	73.5	346	e 11 33	+ 1	—	—	—	—
Sotchi	73.6	326	11 37	+ 5	—	—	—	—
Theodosia	73.7	329	11 36	+ 3	—	—	47.0	—
Simferopol	74.2	330	e 11 38	+ 2	—	—	—	—
Sebastopol	74.6	331	11 41	+ 3	—	—	—	—
Yalta	74.6	330	11 38	0	—	—	44.0	—
Erevan	74.9	321	e 11 45	+ 5	—	—	—	—
Vienna	75.4	344	e 11 43	0	—	—	—	—
Stuttgart	76.0	347	e 11 46	0	—	—	e 45.0	—
Hyderabad	76.9	282	11 42	- 9	21 30	-12	35.0	49.0
Basle	77.4	348	e 11 55	+ 1	—	—	—	—
Zurich	77.4	348	e 11 55	+ 1	—	—	—	—
Chur	77.8	347	e 11 57	0	—	—	—	—
Zagreb	77.8	342	e 11 56	- 1	—	—	—	—
Neuchatel	78.0	348	e 11 58	+ 1	—	—	—	—
Ksara	83.7	323	i 12 27 ^a	0	23 6	+12	—	—
Toledo	86.0	356	i 12 38	0	—	—	—	—
San Juan	93.2	52	—	—	e 23 13	[-38]	e 59.6	—

Additional readings:—

College eSSS = +10m.9s.

Chiufeng PP = +8m.50s.

Scoresby Sund +21m.33s.

Sverdlovsk L_q = +28.2m.

Tucson eSS = +22m.15s.

Florissant eE = +10m.33s. and +10m.36s., eN = +10m.43s., eE = +19m.14s., iN = +19m.18s.

Little Rock iEN = +10m.59s.

Simferopol e = +13m.48s.

Long waves were also recorded at Honolulu, Sitka, Butte, Bozeman, Philadelphia, East Machias, Ivigtut, La Paz, De Bilt, Paris, Prague, and Granada.

Nov. 15d. Readings also at 0h. (Sverdlovsk, Tashkent, and Malabar), 1h. (Baku, Grozny, near Tiflis (2), and near Ferndale), 6h. (Tashkent, Frunse, and near Andijan), 10h. (near Tiflis), 12h. (near Kobe and Sumoto), 13h. (Nagoya and near Mizusawa), 14h. (near Nagoya), 19h. (Hastings), 21h. (Mount Wilson, Pasadena, Simferopol, and Yalta).

Nov. 16d. 23h. 30m. 18s. Epicentre 24°·2N. 141°·6E. (as on 1931 July 2d.). R.3.

$$A = -0.7148, B = +0.5666, C = +0.4099; \quad \delta = -1;$$

$$D = +0.621, E = +0.784; \quad G = -0.321, H = +0.256, K = -0.912.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	11.7	340	e 2 40	- 4	—	—	8.3	—
Sumoto	11.7	335	e 2 32	-12	e 6 15	S _g	—	—
	11.7	335	e 2 35	- 9	e 6 52	S _g	—	—
	11.7	335	e 2 43	- 1	e 6 29	S _g	—	—
Kobe	11.9	333	e 2 44	- 3	e 6 4	S _g	—	11.6
Toyooka	12.7	334	2 55	- 3	—	—	—	11.0
Husan	15.4	318	e 3 38	+ 4	e 6 30	+ 6	—	—
Keizyo	18.3	320	e 4 8	- 2	e 7 34	+ 3	—	—
Zinsen	18.4	319	e 4 16	+ 5	e 7 28	- 5	—	—
Zi-ka-wei	19.2	296	i 4 23 ^a	+ 2	8 1	+11	—	16.8

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Vladivostok	20.5	339	e 4 35	0	e 8 24	+ 8	12.8	17.8
Nanking	21.5	297	4 48	+ 3	8 46	+10	i 12.3	—
Manila	21.7	247	i 5 22	+34	9 12	+32	—	—
Chiufeng	26.6	314	i 5 36k	+ 1	i 9 58	-11	—	—
Batavia	45.5	232	—	—	15 19	+22	—	—
Tashkent	61.4	306	e 10 38	+24	e 18 27	- 7	e 30.9	38.8
Kodaikanal	E. 62.3	270	—	—	e 18 42?	- 4	—	—
Bombay	63.6	280	e 10 42?	+13	i 19 11	+ 9	—	—
Tiflis	78.9	311	—	—	e 22 4	0	47.3	—
Ksara	88.7	307	e 13 1	+10	e 23 51	+ 7	—	—

Additional readings:—

Kobe eZ = +4m.51s., eSE = +6m.10s.

Toyooka ePE = +3m.3s.

Chiufeng iSE = +10m.9s.

Tashkent e = +19m.31s., +19m.54s., +22m.7s., +25m.20s., +26m.32s., and +29m.36s.

Ksara ePS = +24m.47s.

Long waves were also recorded at Baku and Sverdlovsk.

Nov. 16d. Readings also at 0h. (La Paz), 1h. (Riverside and Pasadena), 3h. (Mizusawa (2) and near Nagoya (2)), 4h. (Tiflis), 5h. (near Nagoya), 8h. (Almeria, near Kobe, Sumoto, and Nagoya), 9h. (College, Haiwee, Mount Wilson, Pasadena, and Sverdlovsk), 10h. (Baku and near Tiflis), 12h. (Perth), 13h. (Andijan and Frunse), 15h. (near Mizusawa and Nagoya), 16h. (near Kobe, Sumoto, and Nagoya), 17h. (near Balboa Heights), 18h. (Balboa Heights, Hastings, Medan, and near Nagoya), 19h. (near Lick), 21h. (Tiflis).

Nov. 17d. 19h. 53m. 54s. Epicentre 38°·2N. 141°·7E. (as on 1933 May 24d.). R.2.

$$A = -\cdot6167, B = +\cdot4871, C = +\cdot6184; \quad \delta = 0;$$

$$D = +\cdot620, E = +\cdot785; \quad G = -\cdot485, H = +\cdot383, K = -\cdot786.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.
Isinomaki	0.4	308	0 10	+ 4	0 18	+ 8	—
Sendai	0.6	276	0 9k	0	0 20	+ 5	—
Yamagata	1.1	273	0 15	- 1	0 28	0	—
Hukusima	1.1	245	0 16	0	0 31	+ 3	—
Mizusawa	1.1	335	i 0 13k	- 3	i 0 27	- 1	—
Miyako	1.5	9	0 15a	- 6	0 32	- 7	—
Morioka	1.6	344	0 21k	- 2	0 40	- 1	—
Mito	2.0	208	0 30	+ 1	0 56	+ 5	—
Nūgata	2.1	263	0 37	P _g	1 7	S _g	—
Utunomiya	2.2	222	0 33	+ 2	1 0	+ 3	—
Tukubasan	2.3	213	0 34	+ 1	1 1	+ 2	—
Kakioka	2.3	212	0 32	- 1	1 0	+ 1	—
Hatinohe	2.4	357	0 29k	- 5	0 57	- 5	—
Tyosi	2.5	195	0 46	P _g	1 8	+ 4	—
Kumagaya	2.8	222	0 43	P*	1 17	+ 5	—
Aomori	2.8	345	0 37	- 3	1 18	S*	—
Maebasi	2.8	229	0 42	+ 2	1 16	+ 4	—
Tokyo	3.0	212	0 38	- 5	1 7	-10	—
Oiwake	3.1	233	0 51	P*	1 23	+ 3	—
Yokohama	3.2	212	0 49	+ 3	—	—	—
Nagano	3.2	241	0 51	P*	1 55	S _g	—
Kohu	3.6	225	0 55	+ 4	1 40	S _g *	—
Hunatu	3.6	222	0 52	+ 1	1 43	S*	—
Hakodate	3.7	349	1 8	P _g	—	—	—
Numadu	3.8	217	1 9	P _g	2 2	S _g	—
Misima	3.8	216	1 58	S _g	2 49	?	—
Wazima	3.9	259	0 59	+ 3	—	—	—
Toyama	3.9	248	1 4	P*	1 52	S*	—
Urakawa	4.1	11	0 54	- 4	1 36	- 9	—
Hamamatu	4.7	224	1 59	S	(1 59)	- 1	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.
Gihu	4.8	236	1 11	+ 3	2 13	+10	—
Sapporo	4.9	357	1 0	-10	—	—	—
Obihiro	4.9	13	2 29	?	3 24	?	—
Nagoya	4.9	233	e 1 24	P*	2 21	S*	—
Kusiro	5.2	22	1 35	P _g	2 30	S*	—
Hikone	5.3	238	1 19	+ 4	2 21	+ 6	—
Kameyama	5.4	233	1 56	P _g	2 27	+ 9	—
Asahigawa	5.6	5	1 21	+ 1	—	—	—
Osaka	6.1	236	1 50	P _g	2 53	S*	—
Sverdlovsk	54.2	318	e 9 26	+ 3	—	—	33.1

Sverdlovsk gives also $e = +29m.34s.$

Long waves were also recorded at Vladivostok, Tashkent, Baku, and Tiflis.

Nov. 17d. Readings also at 2h. (Mount Wilson, Pasadena, Riverside, Ksara, near Samarkand, and near Apia), 3h. (San Juan), 5h. (Kew, De Bilt, and near Mizusawa), 15h. (Kodaikanal and near San Javier), 19h. (near Branner), 23h. (Hukuoka B).

Nov. 18d. 1h. 48m.23s. Epicentre $42^{\circ}.8N. 77^{\circ}.2E.$ (as on 1928 Dec. 2d.). X.

$$A = +.1626, B = +.7155, C = +.6794; \quad \delta = -4;$$

$$D = +.975, E = -.222; \quad G = +.151, H = +.663, K = -.734.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Almata	0.5	331	i 0 16	+ 9	i 0 24	+11	—	0.4
Frunse	1.9	272	0 27	- 1	i 0 59	S _g	—	1.1
Andijan	4.1	242	e 1 3	P*	e 1 56	S*	—	2.3
Tashkent	6.0	258	e 1 33	P*	i 3 3	S _g	i 3.1	3.9
Samarkand	8.3	251	e 1 49	- 9	e 3 43	+12	—	5.1
Baku	20.4	274	—	—	e 8 30	+16	e 12.0	—
Tiflis	23.8	279	e 4 55	-13	—	—	4.6	12.0
Moscow	28.4	310	—	—	e 13 7	?	e 15.1	16.7
Pulkovo	32.9	317	—	—	e 13 45	?	17.6	19.2

Additional readings:—

Frunse $iP_g = +29s., iPP = +33s.$

Andijan $e = +1m.15s.$ and $+1m.30s.$

Tashkent $e = +1m.42s., i = +2m.6s., +2m.37s., +2m.53s.$ and $+2m.59s.$

Samarkand $e = +2m.29s.$

Tiflis $eEN = +5m.9s.$

Moscow $e = +14m.15s.$

Long waves were also recorded at Ksara, Sverdlovsk, and Copenhagen.

Nov. 18d. 15h. 50m. 15s. Epicentre $41^{\circ}.0N. 33^{\circ}.5E.$ (as on 1936 Sept. 22d.). R.2.

$$A = +.6293, B = +.4166, C = +.6561; \quad \delta = +4;$$

$$D = +.552, E = -.834; \quad G = +.547, H = +.362, K = -.755.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Istanbul	3.4	273	0 53	P*	2 21	?	—	—
Yalta	3.5	8	i 0 50	0	i 1 29	- 1	—	1.6
Sebastopol	3.6	0	i 0 51	0	1 31	- 1	—	—
Simferopol	3.9	7	i 0 55	- 1	i 1 39	- 1	—	1.8
Theodosia	4.2	18	i 0 59	- 1	i 1 47	- 1	—	2.4
Sotchi	5.2	59	1 13	- 1	i 2 30	S*	—	—
Bucharest	6.4	305	e 1 29	- 2	3 13	S*	—	—
Ksara	7.4	164	i 1 47k	+ 2	i 3 11	+ 2	—	—
Piatigorsk	7.6	63	1 57	+ 9	e 3 17	+ 3	—	—
Erevan	8.3	88	e 2 7	+ 9	e 4 11	S*	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	8.5	82	e 2 3	+ 3	e 3 50	+14	e 4.9	6.0
Czernowitz	9.1	326	i 2 6	- 3	3 12	-39	3.8	—
Grozny	9.3	71	e 2 19	+ 8	e 3 27	-29	—	—
Belgrade	10.3	295	e 2 43 ^a	+18	e 4 20	- 1	e 5.8	8.7
Lemberg	11.0	326	e 3 42	?	—	—	—	13.8
Helwan	11.3	190	i 3 15	+36	i 5 25	S*	—	—
Budapest	E. 12.2	307	e 2 59	+ 8	—	—	7.6	12.2
	N. 12.2	307	e 3 11	+20	—	—	7.0	—
Baku	12.4	87	2 58	+ 4	5 29	+16	6.8	10.2
Zagreb	13.6	297	e 3 9	- 1	e 7 10	L	(e 7.2)	9.7
Vienna	14.1	307	e 3 28	+11	e 7 48	?	e 10.2	14.2
Graz	14.3	301	i 3 15	- 4	e 6 52	+56	e 7.8	10.5
Moscow	15.0	9	e 3 23	- 5	e 6 15	0	e 8.2	10.2
Prague	16.1	311	e 3 39	- 4	e 6 45	+ 4	e 9.2	12.2
Padova	16.4	293	e 3 21	-25	8 40	L	(8.7)	—
Florence	16.6	287	e 3 15	-34	e 7 5	+13	—	—
Cheb	17.3	309	e 3 55	- 3	e 7 26	+17	e 9.8	12.4
Jena	18.1	314	e 4 7	- 1	e 7 45	+18	e 9.8	12.0
Stuttgart	18.8	308	e 4 15 ^k	- 1	e 7 48	+ 6	e 9.8	13.8
Pulkovo	18.9	355	i 4 7	-10	7 43	- 1	9.8	12.6
Zurich	18.9	298	e 4 14	- 3	—	—	—	—
Basle	19.6	299	e 4 26	+ 1	—	—	—	—
Strasbourg	19.6	302	i 4 25 ^k	0	e 8 10	+12	e 9.8	—
Neuchatel	19.9	298	e 4 30	+ 1	e 8 23	+19	—	—
Copenhagen	20.1	325	4 30	- 1	8 17	+ 9	10.8	—
Hamburg	20.2	317	i 4 31 ^a	- 1	e 8 18	+ 8	e 11.8	12.8
Upsala	21.3	337	i 4 42	- 1	i 8 42	+10	e 13.8	15.5
De Bilt	22.2	311	e 4 55	+ 2	9 1	+11	e 10.8	13.2
Uccle	22.3	306	4 56	+ 2	9 0	+ 8	e 10.8	—
Barcelona	23.5	283	—	—	e 9 31	+17	—	17.7
Sverdlovsk	23.6	38	i 5 12	+ 6	i 9 27	+11	i 17.6	21.2
Kew	25.3	307	—	—	e 9 53	+ 7	e 16.8	17.4
Bergen	26.0	329	5 32	+ 3	e 10 3	+ 5	—	—
Jersey	26.2	301	e 4 17	?	e 10 7	+ 5	—	18.2
Tashkent	26.8	77	e 5 53	+17	i 10 26	+14	e 14.2	20.0
Stonyhurst	27.1	311	—	—	i 10 25	+ 8	e 17.8	19.4
Edinburgh	28.0	315	e 7 45 [?]	?	e 10 31	- 1	e 15.8	20.8
Toledo	z. 28.4	280	e 5 51	0	—	—	—	—
Granada	28.8	275	e 6 6	+12	—	—	e 18.8	—
Andijan	29.1	78	e 6 3	+ 6	e 10 53	+ 3	—	—
Frunse	30.3	73	e 6 33	+25	—	—	—	—
Agra	E. 38.9	96	e 8 53	PP	i 13 23	+ 3	—	26.3
Bombay	40.1	112	e 5 45 [?]	?	—	—	—	—
Calcutta	N. 49.2	95	—	—	e 16 1	+11	—	29.4
Kodaikanal	E. 49.4	116	—	—	e 14 45 [?]	?	—	—
Colombo	53.4	117	15 25	S	(15 25)	-82	—	36.6
Chiufeng	60.2	61	e 18 24	S	(e 18 24)	+ 5	—	41.4

Additional readings :—

Sotchi e = +1m.21s. and +1m.28s.
 Bucharest PE = +1m.45s., PN = +1m.48s., iPSE = +2m.37s., SSN = +3m.29s.
 Ksara iSS = +3m.55s., iP_cP = +8m.36s.
 Tiflis eE = +2m.29s., eN = +3m.29s., eE = +4m.32s.
 Belgrade e = +3m.11s. and eZ = +5m.0s.
 Helwan i = +9m.18s.
 Budapest eN = +6m.3s., eE = +6m.21s., iN = +6m.31s., iE = +6m.34s.
 Stuttgart eEN[?] = +3m.57s.
 Copenhagen +8m.32s.
 Hamburg iSE = +8m.31s.
 Sverdlovsk iL_q = +12.6m.
 Edinburgh i = +10m.36s.
 Toledo P_cPZ = +8m.57s., P_cSE = +12m.44s., S_cSE = +16m.31s.
 Long waves were also recorded at Paris, Göttingen, Algiers, San Fernando, Rath-farnham Castle, Vladivostok, Tucson, and Hyderabad.

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Nov. 18d. 16h. 58m. 58s. Epicentre $40^{\circ}3'N$. $126^{\circ}0'W$. (as on 1936 Oct. 10d.). R.3.

$$A = -0.4483, B = -0.6170, C = +0.6468; \quad \delta = +1;$$

$$D = -0.809, E = +0.588; \quad G = -0.380, H = -0.523, K = -0.763.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.
Ferndale	1.4	79	e 0 12	- 8	i 0 23	-13
San Francisco	3.7	132	i 0 54	+ 1	i 1 34	- 1
Berkeley	3.8	128	i 0 54	0	i 1 39	+ 2
Branner	4.1	132	e 0 59	+ 1	e 1 51	+ 6
Lick	4.5	129	e 1 3	- 1	i 1 58	+ 3
Fresno	N. 6.0	124	e 1 26	+ 1	—	—
Tinemaha	6.8	115	e 1 42	+ 5	i 3 40	S_g
Haiwee	N. 7.5	121	e 1 49	+ 3	—	—
Mount Wilson	Z. 8.8	131	i 2 3	- 2	i 3 43	- 1
Pasadena	8.8	132	i 2 4	- 1	i 3 46	+ 2
Bozeman	12.2	59	—	—	e 5 20	+12

Additional readings:—

Ferndale iSN = +26s.

Berkeley eE = +1m.22s., eZ = +2m.8s.

San Francisco eE = iN = +1m.38s.

Tinemaha eN = +2m.19s.

Mount Wilson eZ = +4m.25s.

Pasadena eE = +4m.26s.

Long waves were also recorded at Ukiah and Tucson.

Nov. 18d. Readings also at 0h. (Tiflis, Perth, and near Santiago (2)), 4h. (Santiago), 8h. (Branner and Lick), 10h. (Tiflis), 13h. (Almeria, near Granada, and Toledo), 14h. (near Nagoya), 15h. (near Santiago), 16h. (Tucson), 17h. (near Sofia), 18h. (Tucson, Bozeman, Ukiah, Lick, Berkeley, Branner, San Francisco, and near Fresno), 19h. (Andijan).

Nov. 19d. 13h. 57m. 5s. Epicentre $35^{\circ}5'N$. $139^{\circ}1'E$. (as on 1935 March 14d.). X.

$$A = -0.6153, B = +0.5330, C = +0.5807; \quad \delta = -10;$$

$$D = +0.655, E = +0.756; \quad G = -0.439, H = +0.380, K = -0.814.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Kamakura	0.4	117	0 5k	- 1	0 13	+ 3	—	—
Mitaka	0.4	66	0 5	- 1	0 13	+ 3	—	—
Komaba	0.5	72	0 6	- 1	0 15	+ 2	—	—
Tokyo, Cent. Met. Obs.	0.6	71	0 9k	0	0 19	+ 4	—	—
Tokyo, I.U.	0.6	71	0 8k	- 1	0 19	+ 4	—	—
Susaki	0.9	187	0 10a	- 3	0 22	- 1	—	—
Tukubasan	1.1	49	0 15	- 1	0 29	+ 1	—	—
Nagoya	1.8	259	0 24	- 2	0 48	+ 2	—	1.0
Kobe	3.3	257	e 0 52	P^*	1 37	S^*	—	1.8
Toyooka	3.4	272	0 58	P^*	1 44	S_g	—	1.9
Sumoto	3.6	252	e 0 46	- 5	1 47	S_g	—	2.0
Mizusawa	3.9	24	e 0 57	+ 1	i 1 47	+ 7	—	—
Hukuoka B	7.4	257	e 2 13	P^*	e 3 37	S^*	—	—
Vladivostok	9.4	326	e 2 16	+ 3	(4 13)	+14	4.2	5.2
Sverdlovsk	54.8	320	e 9 35	+ 8	—	—	28.9	—

Additional readings:—

Sumoto ePE = +50s., eZ = +1m.0s., SE = +1m.50s.

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Nov. 19d. 21h. 10m. 20s. Epicentre 13°·5N. 90°·8W. N.1.

A = -·0136, B = -·9723, C = +·2334; $\delta = +3$;
D = -1·000, E = +·014; G = -·003, H = -·233, K = -·972.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N.	6·8	302	1 38	+ 1	—	—	—	—
Merida	N.	7·6	9	1 57	+ 9	—	—	—	—
Tacubaya	N.	10·0	307	2 22	+ 1	—	—	—	—
Balboa Heights		11·9	112	e 3 1	+14	e 5 28	+28	—	—
Guadalajara	N.	14·1	302	3 17	0	—	—	—	—
Port au Prince		18·4	72	e 4 29	+18	e 8 4	+31	e 9·6	11·4
Little Rock	N.	21·3	356	e 4 42	- 1	i 8 36	+ 4	e 10·6	12·2
Columbia		22·3	21	4 54	0	8 52	0	e 11·7	—
San Juan		24·2	74	5 13	+ 1	9 41	+14	12·3	—
St. Louis		25·1	0	e 5 20	- 1	i 9 28	-15	i 12·6	15·7
Florissant		25·3	0	i 5 21	- 2	e 9 28	-18	—	16·8
Tucson		26·2	320	e 5 30	- 1	e 9 58	- 4	i 13·9	—
Georgetown		28·2	23	i 5 50	+ 1	10 28	- 7	—	—
Chicago		28·4	3	e 5 46	- 5	i 10 35	- 3	11·2	—
Loyola		28·5	3	e 5 55	+ 3	i 11 17	+37	—	—
Denver		29·1	337	e 4 18	?	—	—	i 10·5	12·3
Ann Arbor		29·2	11	i 6 4	+ 6	i 10 52	+ 1	i 13·8	16·2
Pennsylvania		29·5	20	i 5 59	- 2	i 10 53	- 3	—	18·6
Madison		29·6	2	i 5 58	- 3	e 10 51	- 7	—	—
Huancayo		29·8	149	6 9a	+ 6	10 59	- 2	—	—
Philadelphia		29·8	25	i 6 3	0	10 49	-12	i 14·0	—
Fordham		31·1	25	i 6 13	- 2	i 11 16	- 5	—	—
Buffalo		31·2	17	i 6 14	- 2	i 11 18	- 5	—	—
Ithaca		31·5	22	i 6 22	+ 4	i 11 24	- 4	—	—
Riverside		31·6	315	e 6 20	+ 1	e 11 24	- 5	—	—
Mount Wilson		32·2	315	i 6 26	+ 2	—	—	—	—
Pasadena		32·3	315	i 6 27a	+ 2	i 11 41	+ 1	e 14·5	—
Haiwee		33·2	318	i 6 33	- 1	e 11 58	+ 4	—	—
Oak Ridge		33·4	27	i 6 36	+ 1	i 11 52	- 5	14·2	—
Santa Barbara		33·5	314	i 6 35	- 1	i 12 4	+ 6	—	—
Tinemaha		34·0	319	e 6 41	+ 1	e 12 7	+ 1	—	—
Ottawa		34·4	19	i 6 43	- 1	i 12 8	- 4	15·7	—
Vermont		34·4	23	i 6 44	0	12 11	- 1	i 21·5	—
Fresno	N.	34·8	317	i 6 50	+ 3	e 12 7	-11	—	—
Lick		36·3	317	e 7 2	+ 2	e 12 47	+ 6	—	—
Bozeman		36·5	336	e 6 59	- 3	12 42	- 2	e 17·8	—
Branner		36·8	316	e 7 7	+ 2	e 12 51	+ 3	—	—
Berkeley		37·1	317	7 7	0	e 12 54	+ 1	—	—
East Machias		37·1	28	e 7 9a	+ 2	i 12 52	- 1	i 20·3	—
San Francisco	N.	37·1	316	e 7 0	- 7	12 54	+ 1	—	—
La Paz		37·4	142	i 7 20a	+10	i 13 15	+18	17·9	19·4
Ukiah		38·4	318	e 7 18	0	e 12 56	-16	e 16·9	—
Ferndale		39·8	319	e 7 37	+ 7	e 13 18	-15	—	—
Seattle		43·1	329	e 7 53	- 5	e 13 45	-37	e 17·7	—
Victoria		44·1	329	7 58	- 8	—	—	—	—
Santiago		50·7	158	8 23	-34	15 39	-32	—	—
Sitka		55·1	333	e 24 40?	?	—	—	—	—
Ivigut		56·7	23	9 34	- 7	17 24	- 8	27·7	—
La Plata		57·6	148	9 48	+ 1	17 40	- 4	28·9	—
Rio de Janeiro		59·1	127	i 9 59	+ 1	i 18 5	+ 1	i 29·1	—
Honolulu		64·0	288	—	—	19 12	+ 5	e 30·3	—
College		64·1	337	e 10 46	+13	e 18 48	-21	e 33·8	—
Scoresby Sund		70·3	19	11 10	- 3	20 16	- 9	32·7	—
Rathfarham Castle		76·0	38	i 11 38	- 8	i 21 17	-15	37·6	46·2
Edinburgh		77·5	36	e 11 40?	-15	i 21 37	-11	e 36·7	49·3

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
San Fernando	77.7	56	e 12	9	+13	21 50	- 1	34.2	—
Bidston	77.9	38	—	—	—	e 22 10	+17	33.7	46.0
Stonyhurst	78.2	37	i 11	58	0	i 21 40	-16	37.2	45.0
Toledo	78.9	52	e 12	2	0	i 21 59	- 5	36.7	44.8
Jersey	79.0	42	i 12	2	- 1	21 53	-12	36.0	43.1
Oxford	79.2	39	i 11	59	- 5	i 21 57	-10	e 30.8	47.2
Granada	79.7	54	i 12	7	+ 1	e 22 5	- 7	—	—
Kew	79.8	39	i 12	6	- 1	22 2	-12	37.7	47.2
Barcelona	80.1	49	e 22	36	S	(e 22 36)	+19	e 39.5	44.5
Almeria	80.6	55	—	—	—	e 22 16	- 6	e 31.9	45.1
Bergen	81.3	30	12	18	+ 3	22 21	- 9	e 39.7	—
Paris	82.0	42	e 12	14	- 4	—	—	e 35.7	50.7
Uccle	82.8	40	12	23	+ 1	22 33	-12	e 34.7	51.3
De Bilt	83.0	38	12	21	- 2	22 29	-18	e 38.7	42.9
Besançon	84.6	43	e 13	40	+69	—	—	e 39.7	—
Algiers	85.0	54	e 12	53	+20	e 22 55	-13	i 35.4	44.7
Neuchatel	85.3	43	e 12	34	- 1	—	—	—	—
Hamburg	85.4	36	i 12	36 ^a	+ 1	e 22 56	-16	e 37.7	52.7
Strasbourg	85.5	41	i 12	35 ^a	- 1	i 22 57	-16	e 38.7	53.5
Basle	85.6	42	e 12	37	+ 1	—	—	—	—
Göttingen	86.0	38	i 12	37	- 1	e 23 10	- 8	—	53.0
Copenhagen	86.2	33	12	40	+ 1	23 9	-10	36.7	—
Stuttgart	86.3	41	i 12	41 ^a	+ 1	i 23 9	-11	e 39.7	54.5
Zurich	86.3	42	e 12	33	- 7	—	—	—	—
Chur	87.1	42	e 12	43	- 1	—	—	—	—
Jena	87.1	39	e 12	40	- 4	e 23 4	[-10]	e 35.7	45.2
Upsala	87.3	28	e 12	45	0	23 5	[-10]	41.7	47.1
Cheb	87.9	39	e 12	52	+ 5	e 23 13	[- 6]	e 41.7	54.7
Florence	89.1	45	e 11	40 [?]	-73	e 22 40 [?]	-67	—	—
Padova	89.1	43	e 12	21	-32	22 28	[-59]	e 50.7	—
Prague	89.1	38	e 12	53	0	e 23 46	- 1	e 35.7	55.7
Graz	90.8	42	e 16	52	PP	e 23 32	[- 5]	e 37.7	56.1
Vienna	91.0	40	e 13	2	0	23 17	[-22]	e 43.2	48.2
Zagreb	91.6	42	e 13	5	0	e 23 36	[- 6]	e 40.6	—
Budapest	E. 92.9	40	e 14	10	+59	i 24 10	-13	49.7	50.7
	N. 92.9	40	e 13	40 [?]	+29	—	—	49.7	50.7
Pulkovo	93.0	26	13	9	- 2	23 40	[-10]	38.7	55.5
Belgrade	94.9	42	e 17	12	PP	e 23 53	[- 7]	e 50.1	—
Czernowitz	96.7	37	i 13	15	-13	—	—	47.7	—
Sofia	97.7	43	e 17	40 [?]	PP	—	—	e 59.7	—
Moscow	98.5	36	13	46	+ 9	24 11	[- 7]	e 42.2	58.7
Wellington	102.2	231	e 12	40 [?]	-74	i 24 40 [?]	[+ 4]	e 42.7	50.7
Sebastopol	103.1	37	e 18	45	PP	e 24 37	[- 4]	e 53.7	—
Simferopol	103.2	37	e 18	24	PP	e 24 43	[+ 2]	e 52.4	—
Yalta	103.5	36	e 18	14	PP	e 24 38	[- 5]	36.9	—
Theodosia	103.9	36	e 18	35	PP	e 24 37	[- 8]	48.7	—
Christchurch	104.0	228	14	14 ^a	+12	24 44	[- 1]	48.4	—
Sverdlovsk	105.8	16	e 14	22	+12	24 59	[+ 5]	53.7	66.4
Sotchi	107.3	35	e 18	42	PP	—	—	—	—
Platigorsk	108.8	34	e 18	52	PP	—	—	58.7	—
Helwan	109.4	52	e 14	30	+ 2	e 26 0	{- 3}	—	65.4
Grozny	110.7	33	e 19	6	PP	—	—	59.2	—
Ksara	110.7	47	e 14	39	+ 5	28 34	PS	53.7	62.7
Vladivostok	111.2	328	e 14	43	+ 7	25 22	[+ 3]	49.4	80.1
Tiflis	111.3	35	e 14	57	+20	e 25 15	[- 4]	e 45.7	61.0
Erevan	112.2	36	e 19	0	PP	—	—	—	—
Cape Town	113.4	121	i 19	33	PP	—	—	e 54.2	60.5
Baku	114.9	33	e 19	38	PP	e 29 33	PS	55.7	68.7
Chinfeng	120.9	337	e 18	49	[+ 1]	25 52	[- 1]	e 54.3	78.5
Frunse	122.0	13	e 19	40	[+50]	—	—	66.2	—
Tashkent	122.2	18	i 20	30	PP	25 52	[- 5]	e 52.8	72.9

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Andijan	123.6	10	e 18 56	[+ 2]	—	—	65.7	—
Melbourne	125.1	234	i 20 2	PP	i 26 10	[+ 5]	58.4	61.1
Zi-ka-wei	z. 125.6	326	e 18 40	[-18]	29 8	{+75}	73.9	84.6
Nanking	126.4	329	e 19 12	[+12]	e 31 5	PS	e 59.4	68.8
Adelaide	130.7	236	i 32 10	PS	—	—	56.3	72.7
Hong Kong	136.6	326	19 24	[+ 7]	31 6	SKSP	—	92.3
Manila	137.8	311	19 26	[+ 7]	23 9	PKS	—	—
Agra	E. 137.9	15	19 33	[+14]	—	—	—	87.4
Phu-Lien	141.7	333	e 18 40?	[-44]	e 32 48	SKSP	73.7	—
Bombay	143.8	27	19 40	[+10]	—	—	—	90.3
Calcutta	N. 144.0	2	19 35	[+ 4]	29 7	{-41}	67.1	91.0
Hyderabad	147.3	20	e 19 43	[+ 5]	33 29	SKSP	68.0	83.0
Perth	149.4	230	19 40	[- 1]	—	—	—	—
Kodaikanal	E. 153.6	27	e 19 54	[+ 7]	30 10	{-33}	e 71.5	95.4
Colombo	157.6	26	19 40?	[-11]	—	—	72.0	94.9
Medan	160.5	332	e 20 1	[+ 7]	—	—	e 77.7	—
Batavia	161.2	291	i 19 59	[+ 4]	—	—	e 81.7	—

Additional readings :—

Port au Prince iPP = +4m.44s.
 Little Rock ipPN = +4m.53s., iPPN = +5m.13s., isSN = +8m.56s., iPcPN = +9m.1s., isSSN = +9m.16s.
 Columbia i = +4m.58s., iPP = +5m.13s., S = +9m.1s., SS = +9m.30s.
 San Juan iPP = +5m.45s., iPPP = +6m.3s., e = +10m.2s.
 St. Louis ipPEN = +5m.35s., iPPEN = +5m.46s., isSEN = +10m.19s., ipPPN = +5m.59s., iPcPEN = +8m.57s., isSEN = +9m.53s.
 Florissant ipPNZ = +5m.35s., iPPZ = +5m.48s., ipPPZ = +6m.1s., iSPZ = +6m.3s., eSZ = +9m.31s., iZ = +9m.34s., isSZ = +9m.55s.
 Tucson iP = +5m.33s., i = +5m.40s., iS = +10m.4s., i = +12m.24s.
 Pennsylvania iPP = +6m.54s., iPcP = +9m.7s., eSS = +13m.37s., iSSS = +14m.18s., e = +17m.17s.
 Denver epPN = +4m.27s., ePPN = +4m.35s., eE = +5m.21s. and +6m.32s. ePcPE = +8m.33s., eN = +9m.28s.
 Ann Arbor iPP = +6m.58s., iSS = +12m.28s.
 Madison +11m.57s.
 Huancayo e = +6m.13s. and +6m.25s., i = +6m.39s., ePP = +7m.15s., iS = +11m.7s.
 Philadelphia i = +6m.7s., e = +7m.13s. and +8m.45s., iS = +10m.58s., i = +12m.40s. = SSSS +0s. and +13m.21s.
 Fordham ipP = +6m.32s.
 Ithaca iPPN = +7m.6s.
 Riverside eScSEN = +16m.55s.
 Mount Wilson iPcPZ = +9m.18s.
 Pasadena iPcPZ = +9m.15s., iScPEZ = +13m.1s., iScSEN = +16m.56s., iPKP,PKPZ = +40m.22s., eZ = +42m.8s., eSKP,PKPZ = +43m.5s.
 Haiwee iPcPZ = +9m.17s.
 Oak Ridge iEN = +6m.54s., iE = +10m.32s., iN = +11m.4s., iZ = +11m.17s., iN = +11m.42s., eE = +11m.45s., iN = eZ = +12m.52s.
 Santa Barbara iPcPZ = +9m.21s.
 Tinemaha iPcPE = +9m.20s., iScSEN = +17m.9s.
 Ottawa PPP = +8m.6s., SSN = +13m.58s.; T₀ = 21h.10m.24s.
 Vermont e = +8m.3s. = PPPP -4s., iSS = +14m.16s., i = +14m.50s., e = +16m.40s. and +17m.40s.
 Fresno ePcPN = +9m.28s.
 Lick ePN = +7m.3s., eSE = +12m.49s.
 Bozeman ePP = +8m.27s., eSS = +15m.31s.
 Berkeley ePEN = +7m.10s., eSEN = +12m.56s., eZ = +12m.59s.
 East Machias iPP = +8m.36s., e = +12m.22s., iSS = +15m.25s., i = +17m.57s.
 San Francisco eE = +7m.5s., eE = +13m.25s.
 La Paz PP = +8m.49s., SSN = +15m.30s., SSE = +15m.55s.
 Ukiah e = +13m.14s., eSSS = +16m.6s.
 Ferndale eSN = +13m.39s.
 Theodosia e = +24m.37s.
 Ivigtut PPP = +13m.16s., SS = +21m.22s., SSS = +24m.19s.
 Rio de Janeiro iSS = +21m.59s.
 Honolulu e = +29m.10s.
 College e = +17m.58s., ePS = +19m.28s., eSS = +23m.22s.
 Scoresby Sund +16m.40s. and +25m.10s., SSS = +28m.10s.
 Rathfarnham Castle i = +12m.36s., +21m.24s., +24m.55s., SS = +26m.42s., +30m.44s.
 Edinburgh i = +22m.3s. and +27m.10s.
 San Fernando PP = +14m.52s., PS = +22m.14s., SS = +27m.26s.
 Bidston eSS = +27m.10s., eSSS = +30m.40s.

Continued on next page.

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Stonyhurst eSS = +26m.38s., iSSS = +30m.26s.
 Toledo iSKSN = +22m.14s., iScSEN = +22m.26s., iPPSN = +22m.56s., GN = +32m.50s., SKKSN = +38m.4s.
 Jersey PP = +14m.50s., PPP = +15m.16s., i = +23m.11s., +26m.22s., +27m.56s., +30m.19s. = SSS + 7s. and +33m.52s.
 Kew iPPEZ = +14m.59s., iE = +23m.58s., SSEN = +27m.19s., eSSSEN = +30m.57s.
 Barcelona eS = +27m.7s. = SS - 7s.
 Bergen e = +33m.40s.?
 Uccle ePPE = +15m.41s., iE = +24m.41s., SSE = +27m.46s., SSSE = +31m.10s.
 De Bilt ePPZ = +15m.35s.
 Algiers ePS = +23m.55s.
 Neuchatel ePP = +15m.59s.
 Hamburg ePPZ = +16m.9s., iSE = eSN = +23m.2s., eSSZ = +29m.0s., eSSSE = +32m.40s.?
 Strasbourg ePPZ = +15m.56s., ePS = +23m.53s., eSS = +29m.8s., eSSS = +31m.40s.?, eSSSS = +35m.10s.
 Göttingen eSSEN = +28m.58s.
 Copenhagen PP = +15m.57s., and +16m.16s., e = +22m.59s., SS = +28m.46s., SSS = +32m.58s.
 Stuttgart ePPE = +16m.3s., ePPS = +24m.34s., e = +25m.45s., eSS = +29m.10s.
 Zurich ePP = +15m.57s.
 Jena eE = +24m.20s., e = +29m.0s. = SS + 2s.
 Upsala iSE = +23m.20s., SS = +28m.58s.
 Prague ePP = +16m.30s., eSKS = +23m.18s., ePS = +24m.58s., eSS = +29m.34s., eSSS = +33m.34s.
 Vienna PP = +16m.39s.
 Zagreb ePP = +17m.4s.
 Budapest eN = +17m.5s., iN = +17m.28s., eN = +19m.10s.
 Pulkovo PP = +16m.53s., PPP = +18m.37s., PPS = +25m.37s., SS = +30m.22s., SSS = +34m.58s.
 Belgrade e = +17m.29s. and +19m.12s.
 Czernowitz i = +20m.8s.
 Moscow PP = +17m.41s., PS = +26m.33s., SS = +32m.10s.
 Christchurch PPZ = +18m.19s., PS = +27m.29s., PPS = +28m.14s., eEN = +29m.29s., SS = +33m.36s., SSSE = +37m.39s., GEN = +42m.31s.
 Sverdlovsk iPP = +18m.42s., SKKS = +25m.25s., iSS = +34m.52s.
 Helwan PP = +18m.57s., SKS = +25m.5s., PS = +28m.15s.
 Ksara iPP = +19m.4s., SS = +34m.42s.
 Vladivostok PP = +19m.15s., PPP = +21m.48s., SKKS = +26m.21s., SS = +34m.46s.
 Tifis PP = +19m.11s., ePPZ = +19m.27s., eSKKSN = +26m.13s., ePSZ = +28m.41s., eSSE = +34m.59s.
 Cape Town PS? = +29m.13s., eSS?E = +35m.8s., eSS?N = +35m.19s.
 Chiufeng PP = +20m.20s., PS = +29m.53s., SSN = +36m.48s.
 Tashkent SKKS = +27m.8s., ePS = +30m.1s., eSS = +42m.16s., SSS = +48m.58s.
 Melbourne SS = +38m.8s., e = +42m.30s.
 Zi-ka-wei iZ = +19m.4s., +20m.52s. = PP + 4s., +21m.6s.
 Nanking e = +20m.58s., PKP = +22m.22s., ePP = +23m.58s., SPSN = +26m.12s., PSE = +33m.16s., SS = +43m.20s., eE = +55m.20s.
 Adelaide e = +33m.10s. and +43m.54s.
 Hong Kong ? = +22m.12s., PP? = +22m.58s., PPP = +26m.44s., SS = +35m.55s.
 Agra SKPE = +22m.58s., SSSE = +45m.33s.
 Phu-Lien e = +21m.48s.
 Bombay eE = +19m.52s., PPPN = +22m.51s., SKP = +23m.14s., SSS = +48m.4s.
 Calcutta SKP = +23m.5s., PPS = +35m.0s., SSSN = +46m.15s.
 Kodaikanal PPE = +23m.29s., iSKPE = +23m.28s., PPPE = +26m.45s., IPSKS = +33m.57s., iPPE = +36m.50s., iSSE = +43m.15s., SSSE = +48m.43s.
 Medan i = +21m.0s.
 Batavia ipPZ? = +20m.43s.
 Long waves were also recorded at Sydney, Tortosa, Bucharest, and Arapuni.

Nov. 19d. 21h. 44m. 19s. Epicentre 13°·5N. 90°·8E. (as at 21h. 10m.). X.

	Δ	Az.	P.	O - C.	S.	O - C.
	°	°	m. s.	s.	m. s.	s.
Oaxaca	N. 6·8	302	1 35	- 2	—	—
Merida	N. 7·6	9	1 56	+ 8	—	—
Tacubaya	N. 10·0	307	2 22	+ 1	—	—
Little Rock	N. 21·3	356	e 4 38	- 5	e 8 33	+ 1
St. Louis	N. 25·1	0	e 5 17	- 4	—	—
Florissant	N. 25·3	0	e 5 25	+ 2	—	—

Little Rock gives also ePPN = +5m.7s.

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Nov. 19d. Readings also at 0h. (Christchurch), 6h. (near Santiago), 11h. (Sebastopol, Simferopol, and Yalta), 13h. (Tacubaya, Haiwee, Pasadena, Riverside, Tinemaha, Mount Wilson, Tucson, Bozeman, Scoresby Sund, Sverdlovsk, near Mizusawa, and Nagoya), 14h. (Ksara), 17h. (near Mizuwawa), 18h. (near Medan and near Santiago), 20h. (Santiago (2)), 22h. (Keizyo).

Nov. 20d. Readings at 0h. (La Paz (2), Little Rock, San Juan, Tucson, and Merida), 1h. (Tashkent and Sverdlovsk), 3h. (near Manila), 4h. (Sebastopol and Yalta), 6h. (Almeria), 12h. (Mizusawa and near Santiago), 15h. (Andijan), 17h. (near Branner), 19h. (Almeria and Mizusawa), 20h. (near Santiago (2)), 23h. (Branner).

Nov. 21d. 21h. 48m. 7s. Epicentre $38^{\circ} \cdot 2N$. $141^{\circ} \cdot 7E$. (as on 17d.). R.1.

The Japanese stations give $38^{\circ} \cdot 0N$. $141^{\circ} \cdot 6E$.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Isinomaki	0.4	308	0 7	+ 1	0 20	+10	—	—
Sendai	0.6	276	0 12k	+ 3	0 23	+ 8	—	—
Hokusima	1.1	245	0 14k	- 2	0 27	- 1	—	—
Mizusawa	1.1	335	i 0 19k	+ 3	i 0 36	+ 8	—	—
Yamagata	1.1	273	0 16	0	0 35	+ 7	—	—
Aidu	1.4	243	0 42	+22	1 1	+25	—	—
Onahama	1.4	207	0 32a	+12	0 46	+10	—	—
Miyako	1.5	9	0 22a	+ 1	0 40	+ 1	—	—
Morioka	1.6	344	0 25k	+ 2	0 47	S _g *	—	—
Akita	2.0	320	0 32	P*	1 0	S*	—	—
Mito	2.0	208	0 25	- 4	0 47	- 4	—	—
Utunomiya	2.2	222	0 30	- 1	0 55	- 2	—	—
Kakioka	2.3	212	0 28k	- 5	0 53	- 6	—	—
Tukubasan	2.3	213	0 29	- 4	0 56	- 3	—	—
Hatinohe	2.4	357	0 35k	+ 1	1 7	S*	—	—
Tyosi	2.5	195	0 38	+ 2	0 56	- 8	—	—
Aomori	2.8	345	0 42	+ 2	1 27	S _g *	—	—
Kumagaya	2.8	222	0 39	- 1	1 11	- 1	—	—
Maebasi	2.8	229	0 39	- 1	1 12	0	—	—
Takada	2.9	248	0 43k	+ 2	1 21	S*	—	—
Tokyo	3.0	212	0 44	+ 1	1 12	- 5	—	—
Oiwake	3.1	233	0 44	0	1 17	- 3	—	—
Katuura	3.2	200	0 47	+ 1	1 20	- 2	—	—
Nagano	3.2	241	0 47a	+ 1	1 26	+ 4	—	—
Yokohama	3.2	212	0 46	0	1 17	- 5	—	—
Hunatu	3.6	222	0 51	0	1 33	+ 1	—	—
Kohu	3.6	225	0 52	+ 1	1 38	+ 6	—	—
Mera	3.6	204	0 51	0	1 50	S _g *	—	—
Hakodate	3.7	349	1 9	P _g *	2 6	S _g *	—	—
Misima	3.8	216	0 51	- 3	1 56	S _g *	—	—
Numadu	3.8	217	0 55	+ 1	1 36	- 1	—	—
Ito	3.9	214	1 3	P*	1 47	+ 7	—	—
Toyama	3.9	248	1 1	P*	1 41	+ 1	—	—
Wazima	3.9	259	0 56	0	1 58	S*	—	—
Husiki	4.0	249	1 6	P*	2 35	?	—	—
Iida	4.1	231	1 4	P*	1 48	+ 3	—	—
Urakawa	4.1	11	1 9	P*	1 44	- 1	—	—
Takayama	4.1	241	1 0	+ 2	—	—	—	—
Muroran	4.2	352	1 10	P*	1 59	S*	—	—
Omaesaki	4.6	219	1 13	P*	2 18	S*	—	—
Gihu	4.8	236	1 10k	+ 2	2 10	+ 7	—	—
Nagoya	4.9	233	0 10	-60	2 3	- 2	—	2.5
Obihiro	4.9	13	1 32	P _g *	2 34	S _g *	—	—
Sapporo	4.9	357	1 33	P _g *	2 8	+ 3	—	—
Ibukisan	5.1	238	1 9	- 4	2 9	- 1	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kusiro	5.2	22	0 58	-16	1 51	-22	—	—
Hikone	5.3	238	1 19	+ 4	2 31	S*	—	—
Kameyama	5.4	233	1 16	- 1	2 36	S*	—	—
Tu	5.4	232	1 33	P*	2 31	S*	—	—
Asahigawa	5.6	5	1 39	P*	2 31	+ 8	—	—
Kyoto	5.7	238	1 22	+ 1	2 39	S*	—	—
Nemuro	5.9	29	1 13	-11	2 22	- 9	—	—
Yagi	6.0	234	1 27	+ 2	—	—	—	—
Osaka	6.1	236	1 47	P*	2 55	S*	—	—
Osaka B	6.1	236	1 23	- 4	3 0	S*	—	—
Toyooka	6.1	247	1 27	0	2 40	+ 4	—	3.5
Haboro	6.2	0	1 34	+ 6	—	—	—	—
Kobe	6.3	239	e 1 43	P*	e 2 54	+13	—	4.2
Wakayama	6.6	235	1 28	- 6	3 9	S*	—	—
Sumoto	6.7	237	e 1 34	- 1	3 16	S*	—	3.7
Siomisaki	6.8	227	1 38	+ 1	—	—	—	—
Hamada	8.4	250	2 20	+21	4 4	S*	—	—
Vladivostok	8.9	307	e 1 58	- 8	e 4 59	S _g	5.1	6.4
Hukuoka B	10.2	247	e 2 2	-22	e 3 8	S _g	—	—
Husan	10.6	257	(e 2 33)	+ 4	e 2 33	P	—	—
Zi-ka-wei	z. 18.0	253	e 4 5	- 2	7 55	+30	—	12.3
Chiufeng	19.9	285	i 4 22	- 7	8 10	+ 6	e 9.8	12.8
Tashkent	54.1	298	—	—	e 16 41	-16	27.0	33.3
Sverdlovsk	54.2	318	i 9 34	+11	17 18	+20	25.9	32.7
Tiflis	70.1	307	11 5	- 6	e 21 10	+48	e 35.9	45.0
Tinemaha	E. 74.7	55	e 11 38	- 1	—	—	—	—
Pasadena	z. 76.5	58	e 11 54	+ 5	—	—	—	—
Mount Wilson	z. 76.6	58	e 11 51	+ 2	—	—	—	—
Ksara	81.6	304	e 11 49	-27	e 21 51	-42	42.9	49.9

Additional readings:—

Kobe eZ = +1m.50s., eSE = +2m.57s.

Sumoto eZ = +2m.5s.

Vladivostok e = +3m.13s.

Tashkent e = +21m.9s.

Tiflis eE = +30m.24s.

Long waves were also recorded at Hong Kong, Baku, Copenhagen, Kew, De Bilt, Paris, and Strasbourg.

Nov. 21d. Readings also at 0h. (Andijan and Frunse), 1h. (Jena, Padova, Strasbourg, Ravensburg, Stuttgart, Basle, Chur, and Zurich), 2h. (New Plymouth), 3h. (Almata, Andijan, Frunse, Semipalatinsk), Sverdlovsk, Tashkent, and Tiflis), 4h. (New Plymouth and Wellington), 5h. (Jersey), 6h. (Santiago and near Sumoto), 7h. (Santiago, La Paz, and La Plata), 9h. (Andijan and near Santiago), 10h. (Oaxaca, Tacubaya, and near Santiago), 12h. (near Samarkand), 18h. (near Balboa Heights), 23h. (Berkeley, Branner, and Lick).

Nov. 22d. 14h. 44m. 40s. Epicentre 30°·2S. 179°·0W. (as on 1932 Oct. 20d.). R.3.

A = -·8641, B = -·0151, C = -·5030; δ = -9;

D = -·017, E = +1·000; G = +·503, H = +·009, K = -·864.

A depth of focus of 0·090 has been applied.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Arapuni	-0.6	9.0	208	e 1 20?	-39	—	—	3.3	—
New Plymouth	-1.2	10.6	211	2 13	0	3 31	-28	i 4.2	—
Wellington	-1.6	12.2	202	2 15	-14	3 55	-33	5.3	—
Christchurch	-2.5	14.9	204	2 38?	-16	4 59	-14	—	—
Riverview	-4.5	25.5	254	i 4 40a	0	e 9 48	+82	e 11.8	14.3

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sydney	-4.5	25.5	254	e 4 40	0	—	—	12.3	15.3
Melbourne	-5.6	30.6	245	5 20	0	10 40	SSSS	14.3	16.1
Adelaide	-6.1	35.8	252	e 6 9	+ 7	e 11 40	+41	i 14.7	22.9
Perth	-8.6	55.0	250	21 50	?	—	—	—	—
Batavia	-9.6	73.2	274	i 10 26	- 3	20 22	ScS	—	—
Santa Barbara N.	-10.4	85.4	45	e 12 0	+20	—	—	—	—
Vladivostok	-10.5	86.0	326	—	—	e 22 24	+58	46.5	—
Pasadena	-10.5	86.2	46	i 11 41a	- 3	(e 22 8)	+40	e 22.1	—
Mount Wilson z.	-10.5	86.3	46	i 11 42	- 3	—	—	—	—
Riverside	-10.5	86.6	46	e 11 43	- 4	—	—	—	—
Haiwee N.	-10.6	87.6	45	e 11 52	0	—	—	—	—
Tinemaha	-10.6	88.1	44	e 11 50	- 5	—	—	—	—
Tucson	-10.7	89.9	50	e 11 54	-10	e 22 53	+46	—	—
Huancayo	-10.8	95.4	107	e 12 27	- 4	e 22 55	- 9	e 42.6	—
La Paz N.	-10.9	98.7	116	12 46	- 1	i 23 16	-19	43.3	54.2
Kodaikanal E.	—	106.8	272	e 18 20?	?	—	—	—	—
Sverdlovsk	—	131.3	321	e 18 25	[-44]	—	—	38.3	41.6
Grozny	—	142.3	303	e 18 44	[-41]	—	—	—	—
Tiflis	—	143.2	300	i 18 35	[-53]	—	—	e 74.3	84.5
Erevan	—	143.5	298	e 18 24	[-65]	—	—	—	—
Sotchi	—	146.7	305	e 18 52	[-45]	—	—	—	—
Theodosia	—	149.3	308	e 18 50	[-51]	—	—	—	—
Simferopol	—	150.2	309	e 21 22	?	—	—	—	—
Ksara	—	150.3	285	i 18 47a	[-55]	—	—	—	81.3
Yalta	—	150.3	308	e 18 57	[-45]	—	—	—	—
Sebastopol	—	150.7	310	e 18 57	[-46]	—	—	—	—
Vienna z.	—	158.5	331	e 18 57	[-55]	—	—	—	—
Granada	—	172.1	28	e 20 35	[+30]	—	—	—	—

Additional readings:—

Christchurch eZ = +7m.0s.

Vladivostok e = +38m.9s.

Huancayo e = +18m.24s., S = +23m.2s., e = +29m.44s., eSS = +29m.50s., e = +30m.14s.

Sverdlovsk i = +21m.50s., e = +34m.10s.

Tiflis eE = +22m.28s. = PP - 7s. and +50m.44s.?

Ksara ePP = +22m.35s., eSKSP = +32m.51s.

Granada PP = +24m.51s.

Long waves were also recorded at Chiufeng, Tashkent, Baku, Pulkovo, Strasbourg, Stuttgart, Paris, San Fernando, Oak Ridge, and Rio de Janeiro.

Nov. 22d. 18h. 19m. 20s. Epicentre 13°·5N. 90°·8W. (as on 19d.).

R.1.

A = -0.136, B = -0.9723, C = +0.2334; $\delta = +3$;

D = -1.000, E = +0.014; G = -0.003, H = -0.233, K = -0.972.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Oaxaca N.	6.8	302	1 58	P*	—	—	—	—	—
Puebla N.	9.0	309	2 15	+ 8	—	—	—	—	—
Tacubaya N.	10.0	307	2 22?	+ 1	—	—	—	—	—
Balboa Heights	11.9	112	2 40?	- 7	—	—	—	—	—
Port au Prince	18.4	72	e 4 20	+ 9	e 7 57	+24	e 9.4	10.9	—
Little Rock	21.3	356	i 4 43	0	i 8 27	- 5	i 10.5	13.2	—
Columbia	22.3	74	4 55	+ 1	e 8 48	- 4	e 11.9	—	—
San Juan	24.2	74	e 5 11	- 1	9 37	+10	e 12.3	—	—
Florissant	25.3	0	i 5 22	- 1	e 9 39	- 7	e 15.2	16.7	—
Tucson	26.2	320	e 5 33	+ 2	e 10 0	- 2	e 12.6	—	—
Georgetown	28.2	23	e 5 46	- 3	e 10 24	-11	—	—	—
Chicago	28.4	3	5 49	- 2	10 30	- 8	e 13.1	—	—
Ann Arbor	29.2	11	e 6 4	+ 6	e 10 52	+ 1	i 13.6	14.4	—
Pennsylvania	29.5	20	—	—	e 10 49	- 7	e 17.3	18.7	—
Madison	29.6	2	e 5 0	-61	e 10 15	-43	—	—	—

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		Δ	Az.	P.	O.-C.	S.	O.-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Philadelphia		29.8	25	i 6 2	- 1	e 10 46	-15	i 14.2	—
Huancayo		29.8	149	i 6 7	+ 4	i 11 2	+ 1	—	—
Fordham		31.1	25	i 6 13	- 2	i 11 17	- 4	i 15.4	—
Buffalo		31.2	17	i 6 13	- 3	i 11 9	-14	—	—
Ithaca		31.5	22	e 6 12	- 6	i 11 24	- 4	e 14.9	—
Riverside		31.6	315	e 6 18	- 1	e 11 25	- 4	—	—
Mount Wilson		32.2	315	i 6 25 _a	+ 1	i 11 43	+ 5	—	—
Pasadena		32.3	315	i 6 25 _a	0	i 11 42	+ 2	e 15.3	—
Haiwee	N.	33.2	318	e 6 35	+ 1	—	—	—	—
Oak Ridge		33.4	27	i 6 34	- 1	i 11 53	- 4	e 14.7	—
Weston		33.4	27	i 6 33	- 2	e 11 50	- 7	e 15.8	18.4
Santa Barbara	z.	33.5	314	—	—	e 11 1	-57	—	—
Tinemaha		34.0	319	e 6 43	+ 3	e 11 47	-19	—	—
Ottawa		34.4	19	e 6 42	- 2	12 6	- 6	16.2	—
Vermont		34.4	23	i 6 43	- 1	i 12 10	- 2	18.2	—
Fresno	N.	34.8	317	e 6 48	+ 1	—	—	—	—
Lick	E.	36.3	317	e 7 3	+ 3	e 12 47	+ 6	—	—
	N.	36.3	317	e 7 1	+ 1	e 12 43	+ 2	—	—
Bozeman		36.5	336	e 7 2	0	e 12 41	- 3	e 19.6	—
Branner		36.8	316	e 7 3	- 2	—	—	—	—
East Machias		37.1	28	e 7 2	- 5	e 12 45	- 8	e 17.8	—
Berkeley		37.1	317	e 7 6	- 1	i 12 54	+ 1	—	—
San Francisco	N.	37.1	316	e 7 3	- 4	e 12 58	+ 5	—	—
La Paz		37.4	142	i 7 11 _a	+ 1	i 13 11	+14	i 18.4	23.2
Butte		37.4	337	7 8	- 2	—	—	e 18.1	—
Ukiah		38.4	318	e 7 14	- 4	e 13 14	+ 2	e 18.3	—
Seattle		43.1	329	—	—	e 13 34	-48	e 17.1	—
Victoria		44.1	329	8 2	- 4	—	—	—	—
Iviglut		56.7	23	9 38	- 3	17 26	- 6	28.7	—
La Plata		57.6	148	9 48	+ 1	17 41	- 3	28.7	—
Rio de Janeiro		59.1	127	i 9 58	0	i 18 3	- 1	i 29.6	—
Honolulu		64.0	288	—	—	e 25 9	SSS	e 29.9	—
College		64.1	337	e 11 22	+49	—	—	e 32.7	—
Scoresby Sund		70.3	19	11 22	+ 9	20 26	+ 1	34.7	—
Rathfarnham Castle		76.0	38	—	—	e 29 16	?	—	45.7
Edinburgh		77.5	36	—	—	i 21 56	+ 8	—	49.2
San Fernando		77.7	56	e 11 57	+ 1	e 23 1	+70	37.7	—
Bidston		77.9	38	—	—	e 30 52	SSS	e 31.7	47.3
Stonyhurst		78.2	37	—	—	e 21 44	-12	39.2	44.8
Toledo		78.9	52	e 12 0	- 2	e 21 54	-10	—	44.7
Jersey		79.0	42	—	—	e 32 43	SSSS	37.1	—
Granada		79.7	54	e 12 5	- 1	e 22 2	-10	—	—
Kew		79.8	39	i 12 4 _a	- 3	e 22 51	-23	e 31.7	48.4
Paris		82.0	42	e 12 16	- 2	—	—	32.7	45.7
Uccle		82.8	40	e 12 19	- 3	e 22 31	-14	e 34.7	—
De Bilt		83.0	40	12 20	- 3	22 28	-19	e 38.7	50.8
Neuchatel		85.3	43	e 13 32	+57	—	—	—	—
Hamburg		85.4	36	e 12 47	+12	—	—	e 39.7	52.7
Strasbourg		85.5	41	e 12 33	- 3	e 22 58	[- 5]	e 35.7	—
Copenhagen		86.2	33	12 40	+ 1	23 10	[+ 2]	40.7	—
Zurich		86.3	42	e 13 0	+20	—	—	—	—
Stuttgart		86.3	41	e 12 37	- 3	e 23 21	+ 1	e 41.7	53.7
Cheb		87.9	39	—	—	e 23 40?	+14	e 44.7	—
Prague		89.1	38	e 12 58	+ 5	e 23 46	- 1	e 42.7	55.7
Vienna	z.	91.0	40	e 13 10?	+ 8	—	—	—	—
Zagreb		91.6	42	e 13 39	+34	e 23 18	[- 24]	—	45.7
Pulkovo		93.0	26	16 57	PP	25 40	+76	44.7	55.7
Moscow		98.5	36	—	—	24 16	[- 2]	47.2	58.6
Sebastopol		103.1	37	e 19 19	PP	—	—	—	—
Yalta		103.5	36	e 18 40	PP	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Theodosia	103.9	36	18 35	PP	—	—	—	—
Christchurch	104.0	228	24 34	S	(24 34)	[-11]	47.9	—
Sverdlovsk	105.8	16	18 50	PP	25 1	[+7]	45.7	60.1
Helwan	109.4	52	18 10	[-6]	c 28 13	PS	—	—
Ksara	110.7	47	e 14 44	+10	i 28 43	PS	—	—
Grozny	110.7	33	e 20 28	PPP	—	—	65.2	—
Vladivostok	111.2	328	19 20	PP	25 12	[-7]	e 55.0	78.6
Tiflis	111.3	3	19 9a	PP	c 25 15	[-4]	50.7	72.7
Capetown	113.4	121	i 19 29	PP	29 10	PS	e 56.1	66.6
Baku	114.9	33	19 36	PP	29 30	PS	51.7	69.2
Chiufeng	120.9	337	18 51k	[+3]	25 49	[-4]	e 54.8	77.8
Frunse	122.0	13	e 19 2	[+12]	—	—	60.2	—
Tashkent	122.2	18	e 18 43	[-8]	e 27 20	{-11}	e 68.5	74.2
Andijan	123.6	10	e 18 39	[-15]	—	—	—	—
Melbourne	125.1	234	e 21 1	PP	c 26 0	[-5]	58.7	63.1
Hong Kong	136.6	326	22 11	PP	(26 47)	[+12]	—	84.2
Agra	E. 137.9	15	e 19 25	[+6]	22 55	PP	—	—
Phu-Lien	141.7	333	21 40?	PP	—	—	73.7	—
Bombay	143.8	27	19 32	[+2]	—	—	—	93.4
Calcutta	N. 144.0	2	19 33	[+2]	—	—	—	90.8
Perth	149.4	230	21 40?	?	—	—	—	—
Kodaikanal	E. 153.6	27	e 20 40?	{+26}	—	—	—	—
Colombo	157.6	26	17 38	?	—	—	—	98.2
Medan	160.5	332	e 19 59	[+5]	—	—	e 96.7	—
Batavia	Z. 161.2	291	i 20 0	[+5]	—	—	—	—

Additional readings:—

Port au Prince IPP = +4m.37s.
 Little Rock ipPN = +4m.58s., iPPEN = +5m.10s., isSEN = +9m.3s., iSSEN = +9m.17s., isSSEN = +9m.48s.
 Columbia e = +6m.45s., S = +8m.58s., SS = +9m.56s.
 San Juan PP = +5m.43s., PPP = +6m.12s.
 Florissant ipPNZ = +5m.36s., iZ = +5m.44s., iEZ = +5m.54s., iZ = +9m.49s., isSNZ = +10m.4s., iSSNZ = +10m.43s.
 Tucson iS = +10m.6s.
 Chicago e = +10m.58s.
 Ann Arbor ePP = +7m.10s., eSS = +12m.34s.
 Pennsylvania e = +11m.38s. and +13m.28s.
 Philadelphia i = +6m.15s., iS = +10m.52s., i = +13m.21s.
 Huancayo e = +6m.34s., PP = +7m.9s., i = +11m.13s., SS = +12m.44s.
 Fordham iPP = +7m.10s.
 Buffalo iPP = +7m.25s., i = +12m.7s.
 Ithaca iPPN = +7m.0s., eE = +7m.14s., iE = +13m.22s.
 Oak Ridge iPPPE = +7m.53s.
 Ottawa PPP = +8m.3s., SS = +14m.4s.; T₀ = 18h.19m.24s.
 Vermont ePP = +7m.42s., e = +12m.26s., eSS = +14m.1s., e = +14m.41s.
 East Machias e = +7m.25s., ePP = +8m.23s., e = +8m.45s. and +9m.22s., S = +12m.56s.
 Berkeley e = +12m.46s., iSZ = +12m.57s.
 La Paz iPPN = +8m.39s., iN = +13m.45s., iSSN = +15m.35s., iN = +17m.0s.
 Butte ePP = +8m.22s.
 Ivigtut +21m.52s. and +24m.20s.
 Scoresby Sund +25m.22s. and +28m.40s.
 Rathfarnham Castle e = +30m.0s., i = +31m.1s.
 Toledo PPN = +14m.51s., S_cSE = +22m.21s., PPSEN = +22m.52s., PKKPE = +30m.51s.
 Kew eE = +23m.57s., eSSSN = +31m.0s.
 Uccle iE = +24m.37s., eSSE = +27m.40s.? eSSSE = +31m.40s.?
 Strasbourg ePS = +23m.50s., eSS = +28m.40s.? eSSS = +32m.40s.?
 Copenhagen +28m.46s.
 Stuttgart ePP = +16m.16s., eSKS = +23m.5s.
 Prague eSKS = +23m.10s., eSS = +29m.22s., eSSS = +33m.28s.
 Pulkovo SS = +30m.34s.
 Moscow PS = +26m.7s., PPS = +26m.39s.
 Christchurch iS = +33m.36s., GN = +43m.20s.
 Sverdlovsk SS = +34m.10s., SSS = +38m.34s.
 Ksara ePP = +19m.15s., iPPS = +29m.43s., eSS = +35m.5s.
 Vladivostok PPP = +22m.2s., SKKS = +26m.17s., PS = +28m.48s.
 Tiflis ePSE = +28m.53s., ePPSE = +34m.10s., eN = +35m.11s.
 Cape Town eSS = +35m.12s.

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Baku PPS = +31m.2s., SS = +36m.40s.
 Chiufeng iPPNZ = +20m.20s., SKKS?N = +27m.17s.
 Tashkent iPKP = +19m.24s., PP = +20m.40s., eS = +28m.20s., PPS = +31m.58s., SSS = +42m.22s.
 Melbourne e = +38m.7s.
 Hong Kong ? = +22m.57s., PPP? = +31m.50s., S? = +35m.44s.; SKS is given as PP?
 Bombay PPN = +22m.47s., SKPN = +23m.9s., SSS?E = +47m.55s.
 Calcutta PPN = +22m.54s., PPSN = +35m.54s., SSSN = +47m.40s.
 Long waves were also recorded at Sitka, Dakar, Algiers, Almeria, Graz, Göttingen, Jena, Upsala, Belgrade, Hyderabad, Zi-ka-wei, Adelaide, Sydney, Wellington, and Apia.

Nov. 22d. Readings also at 2h. (Berkeley, Lick, near Fresno, Branner, and near Santiago), 9h. (near Neuchatel), 10h. (Bozeman and Sumoto), 12h. (Mount Wilson, Pasadena, near Santiago, and near Samarkand), 15h. (near Malabar), 16h. (Mount Wilson, Pasadena, Riverside, Santa Barbara, Tinemaha, Little Rock, Tucson, Oaxaca, Puebla, and Tacubaya), 17h. (Tifis, Takaka, near Christchurch, New Plymouth, and Wellington), 18h. (Mount Wilson (2), Pasadena (2), Tifis, near La Paz, and near Malabar (2)), 21h. (Bergen and near Hukuoka B).

Nov. 23d. 0h. 36m. 28s. Epicentre 8°·0N. 82°·0W. (as on 1934 July 18d.). X.

$$A = +.1378, B = -.9806, C = +.1392; \quad \delta = -6;$$

$$D = -.990, E = -.139; \quad G = +.019, H = -.138, K = -.990.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	2.6	67	i 0 44	P _g	i 1 21	S _g	—	1.8
San Juan	18.6	54	e 3 58	-16	e 7 36	-2	e 11.1	—
Huancayo	21.1	162	e 4 38	-3	6 34	?	e 11.2	—
La Paz	28.1	150	5 56	+8	—	—	15.5	19.2
Philadelphia	32.5	10	—	—	e 11 19	-24	e 15.4	—
Mount Wilson	z. 42.3	314	e 7 51	0	—	—	—	—
Pasadena	z. 42.3	313	e 7 52	+1	i 9 32	?	—	—
Tinemaha	z. 43.9	317	—	—	i 9 36	?	—	—

Additional readings:—

San Juan P = +4m.6s., e = +7m.7s. and +8m.6s.

Huancayo P = +4m.52s., e = +5m.2s., iPP = +5m.24s., eSS = +9m.1s., S = +9m.12s., e = +9m.41s.

Long waves were also recorded at Rio de Janeiro and Tucson.

Nov. 23d. 1h. 30m. 16s. Epicentre 30°·5N. 86°·9E. (as on 1935 Jan. 6d.). X.

$$A = +.0465, B = +.8604, C = +.5075; \quad \delta = +1;$$

$$D = +.999, E = -.054; \quad G = +.027, H = +.507, K = -.862.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	N. 8.1	170	2 8	+13	3 38	+12	4.6	6.0
Agra	8.5	249	2 2	+2	3 29	-7	—	5.8
Almata	15.0	331	e 3 36	+8	e 4 48	?	—	—
Hyderabad	15.2	212	6 22	S	(6 22)	+2	8.8	9.8
Andijan	15.6	315	e 3 31	-5	e 6 11	-18	e 9.5	—
Frunse	15.8	325	e 3 29	-10	e 6 9	-25	—	—
Bombay	17.2	231	e 3 49	-8	e 6 49	-17	7.7	11.3
Tashkent	17.8	312	i 4 4	0	i 7 16	-4	i 9.5	11.0
Samarkand	18.6	304	e 4 10	-4	—	—	—	—
Phu-Lien	20.3	114	e 4 14	-19	e 8 29	+17	—	—
Kodaikanal	E. 22.1	205	—	—	e 8 44?	-4	—	—
Chiufeng	25.6	60	e 5 28	+3	e 10 13	+22	—	16.3
Hong Kong	25.7	102	—	—	10 15	+22	—	17.0
Sverdlovsk	32.0	333	e 6 35	+12	—	—	14.7	—
Vladivostok	37.7	58	e 8 34	PP	e 16 2	SSSS	20.8	—
Ksara	42.9	287	e 7 53	-3	e 13 37	-42	17.3	27.7

For Notes see next page.

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NOTES TO Nov. 23d. 1h. 30m. 16s.

Additional readings :—

Agra P*E = +2m.29s., P_gE? = +2m.54s., S*EN = +3m.57s., S_gEN = +4m.17s.

Hyderabad S = +7m.50s.

Bombay SSEN = +7m.12s.

Chiufeng iPE = +5m.31s., S?EN = +10m.20s.

Vladivostok e = +18m.38s.

Long waves were also recorded at Zi-ka-wei, Baku, De Bilt, and Strasbourg.

Nov. 23d. 20h. 6m. 23s. Epicentre 11°·5N. 70°·0W. N.3.

A = +·3352, B = -·9208, C = +·1994; $\delta = -1$;

D = -·940, E = -·342; G = +·068, H = -·187, K = -·980.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Port au Prince	7·4	343	i 1 29	-16	i 2 44	-25	—	—
San Juan	7·8	28	i 1 48	-3	—	—	i 3·5	—
Balboa Heights	9·7	256	e 2 21	+4	e 4 9	+3	—	—
Huancayo	24·1	193	i 5 15	+4	i 9 28	+3	13·4	—
La Paz	28·1	176	i 5 49 _a	+1	i 10 58	+24	14·6	18·1
Rio de Janeiro	43·3	143	—	—	e 17 37	SS	e 20·6	—
Mount Wilson z.	49·2	306	e 8 40	-5	—	—	—	—
Pasadena z.	49·2	306	e 8 41	-4	—	—	—	—
Tinemaha	50·2	309	e 9 0	+7	—	—	—	—
Santa Barbara z.	50·6	305	e 9 5	+9	—	—	—	—

Additional readings :—

San Juan i = +2m.36s. and +2m.50s.

Huancayo i = +5m.34s., ePP = +5m.42s.

Long waves were also recorded at Tucson, Scoresby Sund, De Bilt, Strasbourg, and Stuttgart.

Nov. 23d. 22h. 44m. 31s. Epicentre 45°·0N. 17°·9E. N.3.

(epicentre given by Belgrade).

A = +·6729, B = +·2173, C = +·7071; $\delta = 0$;

D = +·307, E = -·952; G = +·673, H = +·217, K = -·707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	1·6	301	i 0 22	-1	i 0 43	+2	i 0·9	1·2
Belgrade	1·8	96	i 0 23 _a	-3	i 0 45	-1	—	0·9
Budapest	2·6	18	i 0 44	P _g	1 18	S*	—	—
Laibach	2·6	296	e 0 40 _a	+3	e 1 16	S*	—	1·4
Graz	2·7	321	e 0 34	-5	i 0 54	-15	—	1·4
Vienna	3·4	343	i 0 48	-1	1 41	S*	—	2·5
Padova	4·3	277	e 1 14?	P*	—	—	—	—
Florence	4·9	258	1 49	P _g	2 29	S*	—	—
Prague	5·6	337	—	—	e 2 17	-6	—	3·0
Zurich	6·8	291	e 1 33	-4	e 3 27	S*	—	—
Stuttgart	7·0	305	e 2 40	P _g	e 3 54	S _g	4·5	—
Jena	7·2	327	e 1 41	-1	3 5	+1	—	4·0
Basle	7·6	292	e 1 43	-5	e 4 1	S _g	—	—
Neuchatel	7·9	288	e 1 52	0	e 4 11	S _g	—	—

Additional readings :—

Zagreb iP_g = +27s., iZ = +31s., iNW = +39s. and +47s.

Belgrade iPP = +27s., i = +36s., iSS = +49s.

Budapest eE = +47s. and +49s., eN = +59s., PSE = +1m.12s. and +1m.18s.,

SE = +1m.24s., S_gE = +1m.34s., iN = +1m.49s., eE = +1m.54s. and +2m.24s., eN = +2m.29s., iN = +2m.45s.

Laibach e = +49s. and +1m.0s.

Graz iP = +38s.

Vienna P_g = +1m.5s., S = +1m.48s. = S_g.

Prague iZ = +2m.30s.

Jena eN = +1m.53s.

Long waves were also recorded at De Bilt and Strasbourg.

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Nov. 23d. Readings also at 0h. (Balboa Heights, Hong Kong, New Plymouth, and near Wellington), 1h. (Mount Wilson, Pasadena, and Tinemaha), 2h. (Mount Wilson, Pasadena, and Tinemaha), 3h. (De Bilt, Paris, Strasbourg, Branner, San Francisco, near Berkeley, and Ferndale), 4h. (Stuttgart), 9h. (near Florissant and Little Rock), 14h. (Rio de Janeiro), 15h. (Agra, Kodaikanal, Andijan, Frunse, Samarkand, Ksara, Lick, near Berkeley, Branner, and San Francisco), 18h. (Kodaikanal and near Branner), 19h. (Santiago), 20h. (La Plata and near Santiago), 21h. (La Paz, Rio de Janeiro, Tacubaya, Mount Wilson, Pasadena, Medan, and near Malabar), 22h. (near Malabar), 23h. (near Branner).

Nov. 24d. Readings at 3h. (Granada), 6h. (Andijan, Frunse, Takaka, near Christchurch, New Plymouth, and Wellington), 9h. (Mount Wilson, Pasadena, and Piatigorsk), 12h. (Merida, Oaxaca, Tacubaya, Little Rock, Tucson, Mount Wilson, Pasadena, Lick, near Branner, Berkeley, and near Wellington), 13h. (Hong Kong, Bombay, Calcutta, Chiufeng, Vladivostok, Baku, Tashkent, Sverdlovsk, Pulkovo, Moscow, Tiflis, Ksara, Strasbourg, La Jolla, Mount Wilson (2), Pasadena (2), and Tinemaha), 14h. (Copenhagen, De Bilt, Stuttgart, and Santiago), 16h. (Andijan), 17h. (Balboa Heights, Adelaide, Melbourne, Riverview, Sydney, and Perth), 19h. (near Nagoya), 20h. (near Santiago), 22h. (Hong Kong, Vladivostok, Chiufeng, Calcutta, and near Manila), 23h. (Sverdlovsk and Tashkent).

Nov. 25d. 1h. 5m. 34s. Epicentre $33^{\circ}7'N$. $135^{\circ}2'E$. (as on 1936 Aug. 31d.). X.

$$A = -0.5903, B = +0.5862, C = +0.5548; \quad \delta = -11.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Sumoto	0.7	338	i 0 14	+ 4	i 0 25	+ 7	0.4
Kobe	1.0	359	0 15 _a	+ 1	i 0 24	- 2	0.4
Toyooka	1.9	350	0 26	- 2	0 44	- 5	0.8
Nagoya	2.0	45	e 0 27	- 2	0 47	- 4	0.8

Nov. 25d. 11h. 43m. 40s. Epicentre $44^{\circ}4'N$. $148^{\circ}4'E$. N.2.

$$A = -0.6085, B = +0.3744, C = +0.6997; \quad \delta = +3;$$

$$D = +0.524, E = +0.852; \quad G = -0.596, H = +0.367, K = -0.714.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	7.6	228	1 44	- 4	3 2	-12	—	—
Nagoya	12.8	227	e 3 5	+ 6	5 27	+ 5	—	—
Sumoto	14.5	230	e 3 14	- 8	—	—	—	—
Husan	17.5	244	e 3 58	- 2	—	—	—	—
Hukuoka B	17.6	240	3 59	- 3	—	—	—	—
Chiufeng	24.1	271	i 5 10 _a	- 1	e 9 22	- 3	e 11.8	14.8
Zi-ka-wei	z. 24.9	247	i 5 22 _k	+ 3	9 50	+11	13.6	15.7
Nanking	26.1	252	e 5 30	0	10 7	+ 7	—	—
Manila	37.8	226	7 10	- 3	13 0	- 3	—	—
Frunse	51.5	295	e 9 5	+ 2	e 16 18	- 4	—	—
Sverdlovsk	53.1	317	i 9 28	+13	e 16 58	+15	25.3	34.0
Calcutta	53.3	266	e 9 40	+24	i 16 37	- 9	—	34.0
Tashkent	55.7	297	e 8 34	-60	i 17 18	- 1	e 28.9	35.1
Moscow	64.2	324	e 11 17	+43	19 5	- 5	36.3	40.6
Pulkovo	64.2	330	e 10 31	- 3	e 19 6	- 4	34.3	39.6
Tinemaha	E. 67.1	60	e 10 56	+ 4	—	—	—	—
Baku	68.1	306	11 0	+ 1	20 3	+ 5	36.8	43.9
Grozny	68.5	310	e 11 6	+ 5	—	—	—	—
Mount Wilson	z. 69.1	62	i 11 6 _a	+ 1	—	—	—	—
Pasadena	69.2	62	i 11 5	- 1	—	—	—	—
Piatigorsk	69.2	312	e 11 4	- 2	—	—	—	—
Tiflis	70.1	309	11 11 _a	0	e 20 25	+ 3	e 35.3	51.0
Erevan	71.9	308	e 11 27	+ 5	—	—	—	—
Theodosia	72.7	317	e 11 27	0	—	—	—	—
Copenhagen	73.2	336	11 32	+ 2	21 3	+ 4	40.3	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Simferopol	73.4	318	e 11 38	+ 7	—	—	—	—
Yalta	73.7	317	e 11 50	+17	—	—	—	—
Vienna	z. 78.3	329	e 12 0	+ 1	—	—	—	—
De Bilt	78.4	338	i 12 0 _a	+ 1	—	—	e 37.3	56.3
Uccle	89.8	338	—	—	e 22 9	- 5	e 37.3	—
Stuttgart	80.2	334	e 12 10 _a	+ 1	e 22 25	+ 7	e 45.3	—
Ksara	80.7	309	i 12 10 _a	- 2	e 23 2	PS	40.3	46.3
Strasbourg	80.8	334	(e 17 20?)	PP	—	—	e 17.3	—
Zurich	81.7	334	e 12 17	0	—	—	—	—

Additional readings:—

Sumoto ePE = +3m.23s., eE = +8m.55s., eN = +8m.58s.

Chiufeng iSN = +9m.30s.

Tashkent i = +9m.17s. and +9m.35s., e = +9m.54s., +11m.8s., and +19m.1s.,
eSS = +21m.32s., eSSS = +23m.26s.

Tiflis eSSSN = +28m.33s., eN = +31m.44s., eZ = +33m.50s.

Ksara ePP = +15m.12s.

Long waves were also recorded at Hamburg, Upsala, Hong Kong, Paris, Prague, and Scoresby Sund.

Nov. 25d. Readings also at 2h. (Toledo), 3h. (Ksara and near Medan), 4h. (near Santiago), 6h. (Manila and near Monowal), 8h. (near Santiago), 10h. (Mizusawa, near Nagoya, near Christchurch, and Wellington), 13h. (College), 14h. (near Nagoya), 15h. (Sofa and Zurich), 16h. (Samarkand), 17h. (near Florissant and Little Rock), 18h. (Frunse, near Almata, and near Sverdlovsk), 19h. (Fresno), 21h. (Hastings, Mount Wilson (2), Pasadena (2), Tinemaha, Ukiah, near Tiflis, and near Sumoto).

Nov. 26d. 2h. 12m. 6s. Epicentre 10°·7N. 84°·1W. N.3.

A = +·1010, B = -·9774, C = +·1857; $\delta = 0$;
D = -·995, E = -·103; G = +·019, H = -·185, K = -·983.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Balboa Heights	4.8	110	i 1 7	- 1	i 2 1	- 2	—	2.2
Merida	N. 11.5	334	2 27	-15	—	—	—	—
Tacubaya	E. 17.0	303	3 56?	+ 2	—	—	—	—
San Juan	19.0	65	4 19	0	e 7 46	0	e 11.4	—
Columbia	23.5	6	e 5 3	- 2	e 9 16	+ 2	e 10.9	—
Huancayo	24.4	159	5 15	+ 1	e 9 14	-16	10.8	—
Little Rock	25.2	343	e 5 24	+ 2	e 9 50	+ 6	11.9	—
St. Louis	28.5	350	e 5 46	- 6	e 10 22	-18	—	—
Florissant	28.7	350	e 5 49	- 4	e 10 20	-23	—	—
Philadelphia	30.3	15	e 6 13	+ 5	e 11 7	- 2	13.1	—
Chicago	31.2	354	e 6 15	- 1	e 11 11	-12	e 13.2	—
Ann Arbor	31.6	2	e 6 42	+23	e 11 36	+ 7	e 16.5	—
La Paz	32.5	149	e 6 19	- 8	i 11 16	-27	12.7	20.5
Madison	32.7	353	e 6 30	+ 1	e 14 0	SSSS	—	—
Tucson	32.7	315	e 7 36	PP	e 11 34	-12	e 14.6	—
Vermont	35.1	14	—	—	e 12 17	- 6	e 17.3	—
Ottawa	35.4	11	e 6 54?	+ 1	12 26	- 1	16.9	—
East Machias	37.0	21	e 8 30	PP	e 12 42	- 9	e 15.2	—
Mount Wilson	z. 38.9	313	e 7 23	0	—	—	—	—
Pasadena	38.9	313	e 7 22	- 1	e 13 24	+ 4	e 19.7	—
Tinemaha	40.5	316	i 7 25	- 1	—	—	—	—
Butte	42.9	332	e 10 12	PPPP	e 14 18	- 1	—	—
Berkeley	43.6	316	—	—	e 13 54?	-36	—	—
Ukiah	44.9	317	—	—	e 14 18	-31	—	—
La Plata	51.9	152	9 0	- 6	16 12	-15	26.9	—
Rio de Janeiro	52.3	130	e 9 24	+15	i 16 26	- 7	e 23.4	—
Scoresby Sund	70.8	18	—	—	20 18	-13	29.9	—
San Fernando	74.0	55	—	—	e 22 23	+75	33.9	—
Rathfarnham Castle	74.2	38	i 7 45	?	—	—	28.9	34.9
Granada	76.0	55	e 11 56	+10	—	—	36.4	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Edinburgh	76.1	36	—	—	e 21 39	+ 6	e 39.9	46.9
Oxford	77.2	40	—	—	i 21 45	0	e 32.1	35.4
Kew	77.8	40	—	—	e 21 51	- 1	e 32.9	35.5
Paris	79.7	43	—	—	e 26 54?	SS	33.9	35.9
Uccle	80.8	40	—	—	e 22 19	- 5	e 32.9	—
De Bilt	81.1	38	e 15 27	PP	22 26	- 1	e 33.9	37.5
Stuttgart	84.1	42	e 12 33	+ 4	e 22 54	[+ 2]	e 34.9	38.9
Copenhagen	84.8	34	12 32	0	23 4	- 2	35.9	—
Prague	87.3	39	—	—	e 23 0	[-15]	—	40.4
Pulkovo	92.5	27	17 2	PP	e 24 24	+ 5	40.9	47.6
Sverdlovsk	106.5	20	—	—	25 22	{-20}	44.9	62.5
Tiflis	109.7	38	e 19 32	PP	e 26 27	{+22}	e 46.9	63.6
Baku	113.6	37	e 16 25	?	—	—	e 51.4	64.0
Tashkent	122.5	24	—	—	e 26 31	[+33]	e 54.0	74.6

Additional readings:—

San Juan e = +4m.42s., e = +5m.43s., iS = +7m.57s.

Columbia e = +5m.9s.

Huancayo e = +5m.40s. and +5m.54s., i = +6m.45s., e = +9m.35s. and +9m.44s.

Little Rock ePPPE = +6m.3s.

St. Louis ipPEN = +5m.54s., iN = +6m.18s., iPPN = +6m.25s., iN = +6m.57s., iEN = +7m.27s., eN = +10m.34s., esSN = +10m.41s., iN = +10m.44s.

Florissant +5m.52s., ePPN = +6m.24s., eN = +8m.11s., eEN = +10m.40s., iN = +10m.46s., eZ = +11m.8s., iZ = +11m.14s., iE = +11m.35s.

Philadelphia eP_cP = +9m.19s., e = +10m.49s.

Chicago e = +9m.58s.

Ann Arbor e = +13m.24s. = SSSS - 1s., i = +14m.18s.

Tucson e = +12m.49s., eSS = +12m.54s.

Vermont eSS = +14m.46s.

Ottawa SS = +15m.0s.

Scoresby Sund +25m.30s.

Rathfarnham Castle i = +9m.56s.

Copenhagen +23m.45s. = PS - 4s.

Pulkovo e = +20m.17s. = +26m.46s. = +27m.35s.

Sverdlovsk PS = +28m.8s., SS = +33m.36s.

Baku e = +29m.27s., +30m.37s., and +36m.9s.

Tashkent e = +30m.59s., +35m.42s., +40m.28s., and +53m.41s.

Long waves were also recorded at Sitka, Moscow, Hamburg, Pennsylvania, Bergen, Jersey, Strasbourg, Tortosa, Oak Ridge, Stonyhurst, Bozeman, College, Seattle, Ivigtut, Vladivostok, Hong Kong, Chiufeng, and Cape Town.

Nov. 26d. 8h. 33m. 23s. Epicentre 16°·5S. 179°·0W. N.3.

A = -·9587, B = -·0167, C = -·2840; δ = +4;

D = -·017, E = +1·000; G = +·284, H = +·005, K = -·959.

A correction for depth of focus 0·060 has been applied.

	Corr. for Focus	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Apia	-0.1	7.5	70	i 2 0	+15	3 40	+31	—	—
Riverview	-3.9	31.9	231	i 5 45	- 2	—	—	—	—
Melbourne	-4.5	38.1	228	i 6 37	0	—	—	—	—
Nagoya	-6.6	66.4	322	—	—	e 18 28	+15	—	—
Batavia	-6.9	73.1	268	i 10 48	+ 1	i 19 31	- 4	—	—
Vladivostok	-7.0	74.7	325	e 17 48	?	e 19 55	+ 2	—	—
Branner	-7.0	75.9	43	i 11 5	+ 1	—	—	—	—
San Francisco	-7.0	75.9	43	e 11 4	0	—	—	—	—
Santa Barbara	-7.0	75.9	48	i 11 3a	- 1	—	—	—	—
Berkeley	-7.0	76.1	43	i 11 4	- 1	—	—	—	—
Lick	-7.0	76.2	43	e 11 5	- 1	—	—	—	—
La Jolla	-7.1	76.9	49	i 11 9a	0	—	—	—	—
Pasadena	-7.1	76.9	48	i 11 9a	0	e 20 14	- 5	—	—
Mount Wilson	-7.1	77.0	48	i 11 10a	0	—	—	—	—
Fresno	n. -7.1	77.1	45	e 11 10	- 1	—	—	—	—

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Riverside		77.3	48	e 11	11	- 1					
Haiwee	N.	78.0	46	i 11	16a	0					
Tinemaha		78.3	46	i 11	17a	- 1					
Tucson		81.4	52	e 11	33	- 2	e 21	6	- 4		
Chiuteng		82.6	315	i 11	39a	- 3	21	9	-15		
Tashkent		117.0	308				i 26	21	{-35}		
Sverdlovsk		120.2	326	19	41	PP	26	56	{-21}	38.6	
Tiflis	E.	134.9	312				(e 38	7)	?	e 38.1	
Ksara		144.2	304	e 18	57	[-35]					
De Bilt	Z.	144.3	355	i 18	48a	[-44]					
Uccle	Z.	145.6	357	i 18	51a	[-44]					
Vienna	Z.	145.8	341	e 18	50	[-46]					
Stuttgart		147.1	349	e 18	54	[-43]					
Strasbourg		147.4	351	i 18	55a	[-43]					
Paris		147.7	358	e 18	55	[-43]					
Basle		148.5	351	e 18	52	[-48]					
Zurich		148.5	350	e 18	56a	[-44]					
Granada		158.9	10	e 19	50	[- 2]					

Additional readings :—

- Apia P_cP = +7m.40s.
 - Melbourne i = +6m.52s., e = +15m.3s.
 - Santa Barbara ipPZ = +13m.0s.
 - Berkeley epPZ = +13m.3s.
 - Lick epPN = +13m.3s.
 - La Jolla epPEZ = +13m.7s.
 - Pasadena ipP = +13m.6s., isPZ = +14m.11s., eSKP,PKPZ = +40m.37s.
 - Mount Wilson ipPNZ = +13m.8s., isPZ = +14m.12s., eSKP,PKPZ = +40m.54s.
 - Riverside epPE = +13m.11s.
 - Haiwee eN = +14m.16s.
 - Tinemaha eN = +13m.44s.
 - Chiufeng PSEN = +21m.20s.
 - Tashkent e = +34m.46s.
 - Ksara e = +21m.58s.
 - De Bilt eZ = +22m.12s.
 - Stuttgart ePPZ = +21m.10s.
 - Strasbourg e = +18m.37s.
 - Basle e = +18m.59s. and +19m.6s.
 - Granada e = +23m.37s.
- Long waves were also recorded at Jena.

Nov. 26d Readings also at 4h. (Ksara), 6h. (San Juan and near Tiflis), 7h. (near Berkeley, Branner, Lick, and San Francisco), 8h. (Manila, Mount Wilson, Pasadena, Riverside, and Tinemaha), 9h. (Berkeley, La Paz, Baku, Sverdlovsk, and near Nagoya), 10h. and 11h. (La Plata), 14h. (Almeria), 15h. (San Juan, near Mizusawa (2), and Nagoya (2)), 16h. (Hastings, New Plymouth, and near Tuai), 18h. (Balboa Heights, and San Juan), 19h. (Sotchi), 22h. (Mount Wilson, Pasadena, Frunse (2), near Andijan (2), and Samarkand), 23h. (Apia).

Nov. 27d. 2h. 8m. 37s. Epicentre 10°·7N. 84°·1W. (as on 26d.). X.

$$A = +.1010, B = -.9774, C = +.1857; \quad \delta = +1.$$

		Δ	Az	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Merida	N.	11.5	334	2	37	- 5					
Tacubaya	N.	17.0	303	3	19	-35					
San Juan		19.0	65	e 5	47	?			e 11.7		
Huancayo		24.4	159				e 8	59	-31	e 12.6	
Little Rock		25.2	343	e 5	33	+11					
St. Louis	N.	28.5	350	e 6	8	+16	e 11	1	+21		
Florissant		28.7	350	e 6	4	+11	e 10	50	+ 7	e 17.8	20.8
Philadelphia		30.3	15				12	18	+69	17.8	
Chicago		31.2	354				e 12	4	+41		
Tucson		32.7	315	e 6	31	+ 2	e 12	15	+29	17.2	

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ottawa	35.4	11	—	—	e 13 23?	+56	18.4	—
Riverside	38.3	313	e 6 43	-35	—	—	—	—
Mount Wilson	38.9	313	i 7 13	-10	—	—	—	—
Pasadena	38.9	313	i 7 13	-10	—	—	19.7	—
Haiwee	N. 39.8	315	e 7 22	- 8	—	—	—	—
Santa Barbara	N. 40.2	312	e 7 31	- 3	—	—	—	—
Tinemaha	40.5	316	e 7 30	- 6	—	—	—	—

Additional readings:—

Huancayo e = +10m.45s., +11m.28s., and +11m.47s.

St. Louis iN = +6m.35s.

Florissant eN = +6m.8s., eZ = +11m.17s.

Philadelphia e = +12m.56s., +15m.3s., and +15m.45s., L = +18m.12s.

Tucson eSS = +15m.3s.

Mount Wilson eZ = +10m.4s.

Pasadena eZ = +10m.6s

Long waves were also recorded at Berkeley, Bozeman, Stuttgart, De Bilt, Edinburgh, Scoresby Sund, Sverdlovsk, Strasbourg, Ukiah, Tashkent, and Tiflis.

Nov. 27d. Readings also at 1h. (Merida and Madison), 6h. (Merida (2), Tucson, Scoresby Sund, Andijan, Frunse, and near Tananarive); 7h. (near Kobe, Sumoto, Toyooka, and Nagoya), 10h. (near Manila), 11h. (Belgrade, Sofia, and Zagreb), 17h. (Mizusawa), 18h. (near Nagoya).

Nov. 28d. Readings at 4h. (near Sumoto), 8h. (near Hukuoka B), 10h. (near Sumoto), 11h. (Almeria, Granada, San Fernando, Toledo, Strasbourg, Paris, Ksara, Tiflis, Baku, Tashkent, Cape Town, and near Balboa Heights), 12h. (Kew, Stonyhurst, Edinburgh, De Bilt, Prague, Stuttgart, Copenhagen, Sverdlovsk, Andijan, Frunse, Samarkand, and Tashkent), 13h. (Malabar, Frunse, Tashkent, and near Andijan), 15h. (Sverdlovsk), 17h. (Mount Wilson, Pasadena, Vladivostok, Tashkent, Tiflis, and Sverdlovsk), 19h. (Algiers and Tananarive), 21h. (Helwan), 22h. (Tiflis), 23h. (Sverdlovsk, Tashkent, Vladivostok, and near Mizusawa).

Nov. 29d. 4h. 11m. 0s. Epicentre 38°·3N. 72°·8E. (as on 1936 Oct. 20d.). X.

A = +·2321, B = +·7497, C = +·6198; $\delta = +7$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2.5	352	e 0 38	+ 2	i 1 14	S*	—	1.3
Tashkent	4.0	320	i 0 50	- 7	i 1 26	-16	i 1.8	1.8
Samarkand	4.7	289	e 1 8	+ 1	—	—	—	—
Tchimkent	4.7	326	e 1 3	- 4	1 59	- 1	—	—
Frunse	4.8	17	e 1 17	P*	2 15	S*	—	2.6
Almata	5.9	31	e 1 18	- 6	i 2 46	S*	i 3.1	—
Agra	E. 12.0	157	—	—	e 5 31	+28	i 8.1	—
Baku	17.8	284	e 4 34	+30	e 7 53	+33	e 9.3	—
Bombay	19.4	180	e 4 0?	-23	—	—	—	—
Sverdlovsk	20.2	340	4 41	PP	8 18	+ 8	i 11.9	12.1
Calcutta	N. 20.6	135	e 4 58	+22	—	—	i 10.1	—
Tiflis	21.6	288	e 4 45	- 1	e 8 31	- 7	e 9.7	—
Kodaikanal	E. 28.4	170	—	—	e 8 0?	?	—	—
Pulkovo	34.2	323	—	—	e 14 30	SS	17.0	—

Additional readings:—

Andijan iP_s = +40s., iPP = +42s. and +45s.

Tchimkent eP_s = +1m.14s., i = +1m.21s. and +1m.52s.

Frunse eP_s = +1m.29s., e = +1m.48s. and +2m.11s.

Sverdlovsk iL_s = +10.3m.

Long waves were also recorded at Hyderabad, Vladivostok, Copenhagen, and De Bilt.

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Nov. 29d. 6h. Undetermined shock. Pacific.

Tacubaya PN = 30m.59s.?
 Tucson eP = 33m.38s., e = 33m.56s., eS = 36m.31s. and 38m.12s., eSS = 39m.9s., eL = 40m.38s.
 Huancayo e? = 34m.1s., e = 34m.35s., 35m.12s., 36m.4s., 36m.33s., 39m.10s., 39m.53s., and 40m.8s., S = 40m.59s., e = 42m.39s., eSS = 42m.50s., eL = 45m.18s.
 La Jolla ePZ = 34m.7s.
 Mount Wilson iPZ = 34m.22s., eZ = 37m.32s.
 Pasadena iP = 34m.23s., iZ = 37m.33s., eLN = 41m.18s.
 La Paz PN = 36m.25s., iSN = 42m.56s., L = 48m.0s., M = 53m.0s.
 San Juan e = 36m.48s. and 41m.18s., eL = 42m.24s.
 Philadelphia eP = 37m.30s., iP = 37m.40s., eS = 42m.6s., e = 48m.52s., eL = 52m.18s.
 Honolulu e = 42m.54s., 51m.6s., 52m.6s., 53m.6s., and 53m.36s., eL = 54m.36s.
 Ottawa e = 43m.4s., L = 53m.
 Butte e = 44m.42s.
 Sverdlovsk e = 64m.0s. and 68m.14s., L = 79m.
 Pulkovo e = 66m.33s., L = 80m
 Long waves were also recorded at Berkeley, Bozeman, St. Louis, Oak Ridge, De Bilt, Paris, Strasbourg, Stuttgart, Copenhagen, Ksara, Baku, and Tashkent.

Nov. 29d. 8h. 26m. 0s. Epicentre 22° 0S. 170° 2E. (as on 1936 Jan. 15d.). R.2.

$$A = -.9137, B = +.1578, C = -.3746; \delta = +7;$$

$$D = +.170, E = +.985; G = +.369, H = -.064, K = -.927.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	16.8	165	e 4 0?	+ 8	6 48	- 9	8.0	—
New Plymouth	17.4	170	—	—	e 6 0?	-71	7.0	—
Apia	19.0	67	e 4 20	+ 1	e 7 53	+ 7	—	—
Wellington	19.7	170	4 27	+ 1	8 10	+10	9.5	13.0
Riverview	20.5	231	e 4 39	+ 4	e 8 32	+16	e 10.2	14.5
Sydney	20.5	231	e 4 12	-23	e 8 25	+ 9	11.0	12.7
Christchurch	21.6	176	4 42	- 4	i 8 50	+12	11.0	—
Melbourne	26.8	229	e 5 42	+ 6	10 25	+13	13.6	17.4
Adelaide	30.5	237	e 6 30	+21	e 11 13	+ 1	15.6	18.7
Manila	60.5	302	10 50	+42	18 50	+27	—	—
Batavia	63.0	275	10 24	- 1	18 46	- 9	e 30.0	—
Nanking	73.1	316	e 11 24	- 5	e 20 40	-18	—	—
Vladivostok	74.0	332	—	—	e 21 5	- 3	25.8	40.6
Chiufeng	79.9	321	e 12 6	- 1	i 22 10	- 5	—	—
Pasadena	88.2	52	i 12 48	- 1	—	—	—	—
Mount Wilson	z. 88.3	52	i 12 48	- 1	—	—	—	—
Calcutta	N. 91.3	294	e 18 7	PPP	i 24 5	- 3	—	—
Tucson	91.9	56	—	—	e 30 36	SS	e 43.9	—
Colombo	92.9	276	13 34	+23	—	—	—	52.5
Kodalkanal	E. 96.3	278	e 13 0?	-26	—	—	—	—
Agra	E. 101.7	294	—	—	i 24 27	[- 7]	—	—
Bombay	103.5	285	e 18 0?	PP	—	—	—	59.6
Huancayo	107.3	111	e 21 18	PPP	e 26 30	{+43}	e 49.9	—
La Paz	N. 111.1	119	e 28 0	PS	—	—	68.0	70.4
Tashkent	112.3	307	e 19 24	PP	—	—	e 48.0	79.3
Sverdlovsk	118.9	323	e 20 17	PP	e 28 12	{+63}	48.0	76.0
Ottawa	122.2	49	—	—	e 31 0?	SKSP	54.0	—
Baku	126.8	304	e 21 26	PP	e 31 48	SKSP	60.5	79.7
Tiflis	z. 130.6	306	e 19 21	[+13]	—	—	e 64.0	—
Pulkovo	132.9	333	e 22 49	PKS	e 28 27	{-13}	64.0	73.3
Ksara	138.3	295	e 19 33	[+14]	i 26 36	?	67.5	79.0
Sofia	145.6	314	e 19 30	[- 5]	—	—	—	—
Belgrade	z. 146.3	319	e 19 41	[+ 5]	—	—	—	—
Vienna	146.5	328	e 19 41	[+ 5]	—	—	—	—
Jena	146.6	334	e 19 43	[+ 6]	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	147.8	342	e 19 48	[+ 9]	—	—	e 74.0	80.6
Uccle	z. 149.1	343	e 19 50	[+10]	—	—	—	—
Stuttgart	149.3	335	e 19 46	[+ 5]	—	—	e 74.0	—
Strasbourg	150.0	336	e 20 0?	[+18]	—	—	e 36.0	—
Zurich	150.6	334	e 19 50	[+ 7]	—	—	—	—
Paris	151.5	343	e 19 0?	[-44]	—	—	76.0	—

Additional readings:—

Apia ePP = +4m.42s., e = +5m.30s.

Wellington PP = +4m.47s., SS = +8m.55s.

Riverview ePE = +4m.40s., i = +4m.55s., iSN = +8m.35s., iZ = +8m.39s.,
iSSN = +8m.55s., iSSSE = +9m.0s.

Melbourne i = +10m.48s.

Adelaide e = +10m.24s., i = +13m.11s.

Batavia SN? = +15m.27s.

Vladivostok e = +22m.30s.

Chiufeng pP? = +12m.30s., isS?N = +22m.30s.

Tucson e = +39m.30s.

Tashkent e = +21m.56s. and +39m.0s.

Ottawa e = +41m.0s.?

Baku e = +34m.31s., +38m.53s., +44m.13s., and +48m.24s.

Tiflis eE = 20m.39s, eZ = +22m.23s., +23m.0s., and +36m.36s.

Pulkovo e = +40m.13s. and +43m.36s.

Ksara ePP = +22m.40s., eSKKS = +29m.24s., eSKSP = +32m.44s., ePPS =
+35m.16s., eSS = +41m.18s.

Belgrade eZ = +19m.49s., +20m.35s., +21m.2s.

Zurich e = +9m.34s.

Long waves were also recorded at Hong Kong, Medan, Hyderabad, Berkeley, Copenhagen, San Fernando, and Ukiah.

Nov. 29d. 14h. 54m. 37s. Epicentre 25°·0S. 66°·0W. (as on 1930 Dec. 24d.). X.

$$A = +.3686, B = -.8280, C = -.4226; \quad \delta = +4;$$

$$D = -.914, E = -.407; \quad G = -.172, H = +.386, K = -.906.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Montezuma	3.5	312	—	—	i 1 29	- 1	i 2.0	—
La Paz	N. 8.7	346	i 2 8	+ 5	i 3 18	-23	4.1	5.1
La Plata	12.1	146	3 49	+59	6 25	S _g	7.6	—
Huancayo	15.7	324	e 3 37	- 1	5 34	-57	5.9	—
Rio de Janeiro	21.0	89	5 23?	+43	—	—	—	—
San Juan	43.4	0	e 8 31	+31	e 13 39	-48	—	—
Oak Ridge	67.7	356	i 10 53	- 3	—	—	—	—
Tucson	71.5	321	e 11 13	- 7	—	—	e 20.1	—
La Jolla	75.7	317	e 11 44	0	—	—	—	—
Riverside	76.5	318	e 11 49	0	—	—	—	—
Mount Wilson	77.1	318	i 11 54k	+ 1	—	—	—	—
Pasadena	77.4	318	i 11 54k	0	i 21 45	- 2	—	—
Santa Barbara	78.3	317	i 12 0	+ 1	—	—	—	—
Haiwee	N. 78.4	320	e 12 0	+ 1	—	—	—	—
Berkeley	82.1	318	e 12 19	0	—	—	—	—
San Fernando	83.4	45	—	—	i 22 37	[-10]	—	—
Strasbourg	98.6	40	—	—	e 25 23?	+ 9	—	—
Stuttgart	99.5	40	e 14 38	- 3	e 24 8	[-15]	—	—
Ksara	113.0	63	e 19 33	PP	—	—	—	—
Pulkovo	114.5	32	e 16 58	?	—	—	28.4	—
Tiflis	z. 121.4	55	e 20 32	PP	—	—	—	—
Sverdlovsk	130.5	35	e 19 32	[+24]	i 28 18	{- 7}	54.4	—
Tashkent	139.7	52	i 19 37	[+16]	e 40 25	SS	—	—

For Notes see next page.

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NOTES TO Nov. 29d. 14h. 54m. 37s.

Additional readings:—

Huancayo $i = +3m.43s.$, $+4m.8s.$, $+4m.52s.$
 San Juan $ePP = +9m.28s.$, $e = +10m.30s.$ and $+15m.44s.$, $eSS = +16m.47s.$,
 $e = +17m.15s.$
 Ksara $ipPP = +20m.23s.$, $iSP = +28m.52s.$, $eSPP = +30m.0s.$, $eSS = +36m.31s.$
 Tifis $eE = +22m.2s.$
 Sverdlovsk $e = +21m.42s.$, $i = +22m.33s. = PKS - 3s.$, $e = +38m.42s. = SS - 4s.$
 Tashkent $e = +20m.35s.$ and $+21m.41s.$, $i = +22m.54s.$ and $+23m.20s.$, $e = +23m.27s.$

Nov. 29d. 22h. 50m. 17s. Epicentre $22^{\circ}3N.$ $121^{\circ}3E.$ (as on 1936 Aug. 22d.). R.3.

$A = -.4807$, $B = +.7906$, $C = +.3795$; $\delta = +14$;
 $D = +.854$, $E = +.520$; $G = -.197$, $H = +.324$, $K = -.925$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2.8	4	0 41	+ 1	1 15	+ 3	—	1.5
Hong Kong	6.6	271	0 47	P*	2 53	+ 5	3.8	5.1
Manila	7.7	183	1 45	- 4	3 27	+11	—	—
Zi-ka-wei	z. 8.9	0	e 2 7	+ 1	4 39	S _g	5.4	6.4
Nanking	10.0	348	e 2 21	0	e 4 44	S*	e 5.3	—
Phu-Lien	13.7	266	e 3 13	+ 2	e 7 0	+76	7.7	—
Husan	14.5	26	—	—	e 8 50	?	—	—
Keizyo	16.1	17	e 3 43	0	e 9 2	?	e 13.1	—
Chiufeng	18.4	347	e 4 9	- 2	7 36	+ 3	8.6	13.2
Nagoya	18.8	43	e 3 37	-39	4 40	?	—	—
Vladivostok	22.7	20	e 4 56	- 2	i 9 7	+ 8	11.7	17.7
Calcutta	N. 30.3	276	—	—	e 9 44	-85	—	24.9
Agra	E. 39.4	285	e 8 24	+57	e 13 22	- 5	—	—
Frunse	43.7	309	e 8 4	+ 2	—	—	—	—
Andijan	44.9	305	e 7 45	-27	—	—	—	—
Bombay	45.3	274	e 7 43?	-32	—	—	—	—
Tashkent	47.3	307	8 26	- 5	15 25	+ 2	e 24.0	29.4
Sverdlovsk	55.6	325	9 46	+13	17 30	+13	25.7	30.6
Tifis	65.6	307	e 10 44	+ 2	e 19 26	- 1	e 31.7	38.3
Pulkovo	71.3	328	e 11 31	+12	—	—	35.7	43.6
Ksara	74.2	300	i 11 33	- 3	e 21 6	- 5	—	42.7

Additional readings:—

Taihoku $eP = +45s.$, $SE = +1m.18s.$
 Hong Kong $? = +1m.57s.$
 Chiufeng $iP = +4m.15s.$, $iSN = +7m.38s.$
 Calcutta $iN = +13m.59s.$ and $+15m.25s.$, $eN = +17m.19s.$
 Agra $eE = +9m.26s.$
 Tifis $eSSN = +27m.30s.$
 Ksara $ePPP = +15m.55s.$, $eSS = +26m.1s.$
 Long waves were also recorded at Strasbourg, Paris, Hyderabad, Copenhagen, De Bilt, Hamburg, Edinburgh, Kew, Moscow, and Stuttgart.

Nov. 29d. Readings also at 0h. (Tifis and near Mizusawa), 1h. (near Mizusawa), 5h. (Andijan, Frunse, Little Rock, Branner, and near Fresno), 7h. (Tacubaya), 8h. (Mount Wilson, Pasadena, Tucson, San Juan, and Honolulu), 9h. (Nagoya), 10h. (Perth), 15h. (near Santiago and near Tifis), 16h. (near Santiago), 22h. (near Mizusawa), 23h. (Mount Wilson (2), Pasadena (2), and near Apia).

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Nov. 30d. 23h. 45m. 51s. Epicentre 2°·0S. 126°·0E. (as on 1936 Oct. 19d.). R.1.

$$A = -.5874, B = +.8085, C = -.0349; \quad \delta = -7;$$

$$D = +.809, E = +.588; \quad G = +.021, H = -.028, K = -.999.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	12.6	42	2 56	0	5 18	+ 1	—	—
Manila	17.3	344	3 59 ^a	+ 1	4 24	?	—	—
Malabar	19.0	255	4 25	+ 6	i 8 6	SSSS	—	—
Batavia	19.6	258	4 26	+ 1	i 8 34	+36	11.1	—
Soengi Langka	21.0	261	4 41	+ 1	8 43	+17	—	—
Kosyun	24.6	348	5 17	+ 1	9 35	+ 1	—	—
Takao	25.2	348	5 27	+ 5	—	—	—	—
Taito	25.3	350	5 32	+ 9	—	—	—	—
Tainan	25.6	348	5 29	+ 4	—	—	—	—
Arisan	26.0	349	4 32	-57	—	—	—	—
Karenko	26.3	350	4 32	-60	—	—	—	—
Isigakizima	26.4	356	5 32	- 1	—	—	—	—
Taiyu	26.7	349	5 44	+ 9	—	—	—	—
Hong Kong	26.9	335	5 45 ^a	+ 8	10 11	- 3	12.7	15.1
Taihoku	27.4	351	(e 5 41)	- 1	(10 56)	+34	—	—
Azinkoto	27.9	352	6 0	+14	—	—	—	—
Medan	27.9	282	5 44	- 2	i 10 32	+ 2	—	—
Phu-Lien	29.6	321	e 6 3	+ 2	e 10 56	- 2	14.1	—
Nake	30.6	7	6 11	+ 1	11 9	- 5	—	—
Perth	31.5	198	6 9	- 9	10 39	-49	13.6	33.1
Zi-ka-wei	z. 33.5	353	i 6 38	+ 2	14 6?	SSS	—	41.1
Kagosima	33.8	6	6 28	-11	—	—	—	—
Miyazaki	34.3	8	6 42	- 1	12 12	+ 1	—	—
Nanking	34.7	348	i 6 47	+ 1	12 17	0	e 17.0	—
Adelaide	35.0	163	i 6 46	- 3	i 12 10	-11	—	29.4
Kumamoto	35.1	6	6 17	-33	—	—	—	—
Simidu	35.4	10	6 53	0	—	—	—	—
Hukuoka B	35.8	5	e 6 42	-14	e 12 23	-10	—	—
Koti	36.3	10	7 0	0	12 35	- 6	—	—
Matuyama	36.4	9	7 31	+30	—	—	—	—
Siomisaki	36.6	13	7 1	- 2	12 39	- 6	—	—
Husan	37.2	3	e 7 15	+ 7	12 49	- 5	—	—
Wakayama	37.2	12	7 9	+ 1	12 50	- 4	—	—
Sumoto	37.3	12	7 8 ^a	- 1	12 50	- 6	—	—
Kobe	E. 37.7	12	e 7 16	+ 4	12 58	- 4	e 15.5	21.2
	N. 37.7	12	e 7 14	+ 2	12 56	- 6	e 15.5	25.1
	Z. 37.7	12	e 7 9	- 3	e 12 56	- 6	e 15.5	26.1
Osaka	37.7	12	7 11	- 1	13 0	- 2	—	—
Osaka B	37.7	12	7 13	+ 1	13 6	+ 4	—	—
Kameyama	38.1	14	7 16	0	12 56	-12	—	—
Kyoto	38.1	13	7 5	-11	—	—	—	—
Omaesaki	38.4	17	7 19	+ 1	—	—	—	—
Hikone	38.5	13	7 21	+ 2	—	—	—	—
Nagoya	38.6	14	e 7 20	0	13 11	- 4	—	—
Gihu	38.7	14	7 15 ^a	- 6	13 7	-10	—	—
Hamamatu	38.7	16	7 41	+20	13 29	+12	—	—
Numadu	39.0	17	7 23	- 1	—	—	—	—
Mera	39.1	18	7 43	+19	—	—	—	—
Hunatu	39.4	17	7 27	0	—	—	—	—
Kohu	39.4	17	7 26	- 1	13 13	-14	—	—
Keizyo	E. 39.6	1	e 13 27	S	(e 13 27)	- 3	—	—
Riverview	39.6	147	e 7 26	- 3	13 2	-28	e 19.1	24.8
Sydney	39.6	147	e 7 5	-24	i 13 12	-18	21.2	25.6
Melbourne	39.8	157	e 7 27	- 3	13 34	+ 1	20.8	23.3
Tokyo	39.8	18	7 33	+ 3	—	—	—	—
Oiwake	40.1	16	7 30	- 3	13 28	-10	—	—
Toyama	40.1	13	7 34	+ 1	13 32	- 6	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.	m.
Kumagaya	40.2	17	7	27	- 7	—	—	—	—	—
Maebasi	40.3	16	7	33	- 2	—	—	—	—	—
Nagano	40.3	15	7	33	- 2	13	33	- 8	—	—
Kakioka	40.5	16	7	18	-18	—	—	—	—	—
Wazima	40.7	13	7	35	- 3	—	—	—	—	—
Yamagata	42.4	16	7	54	+ 2	—	—	—	—	—
Chiufeng	43.1	348	7	55 ^a	- 3	i 14	18	- 4	—	—
Mizusawa	43.4	17	i 8	0	0	i 14	24	- 3	—	—
Morioka	44.0	17	8	23	+18	—	—	—	—	—
Calcutta	N. 44.2	305	8	14	+ 8	14	39	0	20.5	28.0
Hatinohe	44.8	17	8	9	- 2	—	—	—	—	—
Vladivostok	45.4	7	e 8	14	- 2	i 14	53	- 3	27.3	33.1
Hakodate	45.8	15	8	36	+17	—	—	—	—	—
Sapporo	47.1	15	8	31 ^k	+ 2	15	19	- 1	—	—
Asahigawa	48.1	15	8	41	+ 4	—	—	—	—	—
Kodaikanal	E. 49.8	286	i 8	53	+ 3	i 15	57	- 1	e 23.2	32.7
Hyderabad	50.7	294	9	0	+ 3	16	14	+ 3	22.9	34.4
Agra	E. 54.6	306	9	26	0	i 17	1	- 3	—	—
Bombay	56.3	294	9	41	+ 3	i 17	22	- 5	27.1	34.3
Christchurch	58.6	141	i 9	52 ^a	- 3	18	29	+32	30.0	—
Almata	63.1	322	10	34	+ 8	—	—	—	—	—
Andijan	63.5	317	e 10	37	+ 8	19	15	+14	—	—
Frunse	64.3	321	e 10	41	+ 7	—	—	—	—	—
Semipalatinsk	65.3	331	e 10	42	+ 1	19	21	- 3	—	—
Tashkent	67.1	317	10	50	- 2	i 19	46	0	31.1	43.7
Tchimkent	67.3	318	10	54	0	19	48	0	—	—
Samarkand	68.1	314	10	57	- 2	19	54	- 4	—	—
Sverdlovsk	78.5	330	i 12	11	+11	i 22	2	+ 3	35.1	49.8
Grozny	84.3	314	e 13	0	+30	e 23	11	+10	—	—
Erevan	84.8	310	e 18	25	PPPP	e 28	59	SS	—	—
Tiflis	84.8	312	i 12	33	+ 1	i 22	52	[- 6]	41.2	64.4
College	90.2	25	e 15	45	PP	e 23	33	[- 1]	—	—
Moscow	90.8	326	—	—	—	e 23	1	[-36]	42.7	56.0
Ksara	91.2	304	i 13	5 ^k	+ 2	24	19	+12	—	—
Theodosia	91.9	316	—	—	—	e 23	37	[- 7]	—	—
Yalta	92.7	315	—	—	—	e 23	42	[- 6]	—	—
Simferopol	92.8	315	—	—	—	e 23	47	[- 2]	—	—
Sebastopol	93.2	315	—	—	—	e 23	54	[+ 3]	—	—
Helwan	95.0	300	17	24	PP	23	54	[- 7]	—	57.1
Pulkovo	95.0	330	—	—	—	e 23	25	[-36]	47.1	59.4
Cape Town	103.3	236	e 23	40	S	(e 23	40)	[-62]	e 52.6	—
Copenhagen	104.7	328	18	45	PP	—	—	—	56.2	—
Victoria	105.1	40	—	—	—	e 24	9?	[-41]	e 43.1	—
Vienna	z. 105.2	320	e 18	31	PP	—	—	—	—	—
Ukiah	107.3	50	e 17	33	[-36]	e 25	3	[+ 2]	—	—
Berkeley	E. 108.3	51	—	—	—	e 24	58	[- 7]	—	—
Scoresby Sund	108.4	349	—	—	—	28	9?	{+13}	56.1	—
Stuttgart	108.9	322	e 19	0	PP	—	—	—	e 59.1	—
Zurich	109.7	320	e 18	46	PP	—	—	—	—	—
Strasbourg	109.8	322	i 19	11	PP	—	—	—	e 29.1	—
De Bilt	110.0	326	i 19	10	PP	—	—	—	e 57.1	67.0
Basle	110.3	320	e 18	48	PP	—	—	—	—	—
Uccle	111.0	325	i 19	20	PP	—	—	—	e 55.1	—
Pasadena	112.4	54	e 14	43	+ 1	—	—	—	e 34.1	—
Mount Wilson	z. 112.6	54	i 14	46	+ 3	—	—	—	—	—
Tucson	118.7	53	e 30	9	PS	—	—	—	e 54.5	—
Toledo	121.1	316	e 20	21	PP	—	—	—	63.9	—
Almeria	121.2	313	e 20	28	PP	—	—	—	—	—
Granada	121.9	314	e 19	35	[+45]	—	—	—	—	—
Ottawa	132.6	21	e 22	39	PKS	e 32	9?	SKSP	e 55.1	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toronto	132.6	25	e 22 35	PKS	—	—	e 56.1	—
Philadelphia	137.5	24	e 22 56	PKS	e 34 39	?	e 57.2	—
Huancayo	154.6	125	e 19 36	[-12]	—	—	—	—
La Paz	156.8	144	i 19 35 _a	[-15]	45 9	SS	75.1	104.4
San Juan	159.8	35	e 19 14	[-39]	—	—	—	—

Additional readings :—

Malabar iP = +4m.30s.
 Batavia iPZ = +4m.29s., iPEN = +4m.32s.
 Hong Kong PP = +6m.17s., P_cP = +9m.31s., SS = +11m.9s.
 Taihoku SE = +11m.11s.; readings have been increased by 10m.
 Perth ? = +6m.22s., +7m.14s., +8m.14s., P_cP = +9m.30s., SP = +11m.34s.
 Zi-ka-wei +20m.9s., +26m.56s.
 Adelaide iPPP = +8m.0s., iPPP = +8m.8s., i = +8m.43s. and +12m.24s.,
 iSS = +13m.48s., iS_cS = +17m.18s.
 Sumoto PZ = +7m.9s.
 Kobe ePN = +7m.14s., ePE = +7m.16s., eSZ = +12m.56s., SE = +12m.58s.
 Riverview iP = +7m.28s., eEN = -8m.58s.
 Melbourne i = +9m.13s. = PPP - 3s.
 Chiufeng i = +8m.3s., PP? = +9m.42s.
 Calcutta PPN = +9m.42s., SSN = +17m.15s., SSSN = +18m.7s.
 Kodaikanal iPPPE = +11m.26s., iSSE = +19m.6s., iSSSE = +20m.11s.
 Agra iPPE = +11m.28s., ePPPE = +12m.21s., PSE = +17m.25s., SSE =
 +20m.39s., SSSE = +22m.13s.
 Bombay P_cPEN = +10m.51s., S_cS = +19m.22s., SSE = +21m.9s.
 Christchurch GN = +26m.2s.
 Tifis eZ = +13m.28s., ePPSE = +23m.51s., eSSE = +28m.21s.
 Moscow e = +23m.26s., +23m.55s.
 Ksara iPP = +16m.47s., PS = +25m.23s.
 Helwan PS = +26m.49s., e = +29m.14s.
 Cape Town iPE = +24m.44s., iN = +25m.58s.
 Victoria eE = +27m.33s., e = +33m.9s.? = SS - 3s., eN = +37m.9s.? = SSS + 4s.
 Ukiah ePS = +26m.15s.
 Berkeley eEZ = +28m.5s., eE = +34m.18s.
 Strasbourg i = +21m.19s. = PP - 10s.
 Basle e = +19m.14s.
 Pasadena iPKPZ = +18m.32s., ePPZ = +19m.17s., ePKKPZ = +29m.32s.
 Mount Wilson iPKPZ = +18m.32s., iPPZ = +19m.18s., ePKKPZ = +29m.35s.
 Tucson eSS = +35m.55s., e = +37m.19s., eSSS = +39m.49s., e = +44m.37s.,
 e = +48m.51s.
 Toledo i = +20m.29s.
 Ottawa eE = +37m.9s.?
 Philadelphia eSS = +39m.58s.
 Huancayo i = +19m.52s., ePKP₂ = +20m.1s., i = +20m.17s. and +20m.26s.,
 e = +21m.48s., ePP = +23m.44s.
 La Paz iPKP₂Z = +20m.26s., ipPZ = +21m.11s., iPPZ = +23m.53s., ipPP =
 +25m.1s., iZ = +28m.49s., iN = +30m.55s., iZ = +32m.54s.
 San Juan ePKP₂ = +19m.53s., e = +25m.36s. = +40m.48s.
 Long waves were also recorded at Kew, Paris, San Fernando, Wellington,
 Scoresby Sund, Chicago, and Arapuni.

Nov. 30d. Readings also at 0h. (Ksara, Tifis, Medan, Mount Wilson, and Pasadena),
 1h. (Grozny and Tifis), 2h. (Agra, Tifis, Hong Kong, near Manila, near
 Mizusawa, and Nagoya), 4h. (Tifis), 6h. (Mizusawa, near Santiago, and
 San Javier), 7h. (Agra), 10h. (Samarkand, near Andijan, and near Mizu-
 sawa), 11h. (Tucson), 16h. (near Mizusawa), 17h. (Adelaide, Perth, River-
 view, Sydney, Mount Wilson (2), Pasadena (2), Ksara, Christchurch, and
 near Wellington), 18h. (Mizusawa), 19h. (Tashkent, Frunse, and near
 Andijan), 20h. (Mount Wilson and near Tucson), 22h. (Mount Wilson,
 Pasadena, and Perth), 23h. (Philadelphia, Florissant, St. Louis, La Jolla,
 Mount Wilson, Pasadena, Riverside, Ukiah, and near Tucson).

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Dec. 1d. 6h. 9m. 21s. Epicentre 30°·5N. 129°·0E. (as on 1932 Aug. 26d.). R.1.

A = -·5422, B = +·6696, C = +·5075; $\delta = -10$;
D = +·777, E = +·629; G = -·319, H = +·394, K = -·862.

A depth of focus 0·040 has been applied. See Bull. Seis. Soc. Amer. 30 No. 4 p.377.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	s.	s.	m.	s.	s.	s.		
Kagosima	+1·0	1·7	51	0	41k	+ 2	1	13	+ 4	—	—	—	—
Tomie	+0·9	2·1	355	0	42k	- 1	1	15	- 2	—	—	—	—
Nake	+0·9	2·2	168	0	42a	- 2	1	18	- 2	—	—	—	—
Nagasaki	+0·9	2·3	18	0	44	- 2	1	20	- 2	—	—	—	—
Unzendake	+0·8	2·5	25	0	52a	+ 5	1	30	+ 5	—	—	—	—
Miyazaki	+0·8	2·6	56	0	44a	- 5	1	21	- 6	—	—	—	—
Kumamoto	+0·7	2·7	32	1	9a	+20	1	48	+21	—	—	—	—
Saga	+0·7	2·9	22	0	50	- 1	1	31	- 1	—	—	—	—
Hukuoka	+0·6	3·3	21	i 0	52a	- 4	i 1	35	- 5	—	—	1·8	—
Hukuoka B	+0·6	3·3	21	i 0	53a	- 3	i 1	37	- 3	—	—	—	1·8
Ooita	+0·5	3·5	38	0	49a	- 8	1	38	- 4	—	—	—	—
Ituhara	+0·5	3·7	4	1	3a	+ 3	1	38	-10	—	—	—	—
Simonoseki	+0·4	3·8	25	0	53a	- 7	1	43	- 5	—	—	—	—
Simidu	+0·4	4·1	54	1	0a	- 4	1	49	- 6	—	—	—	—
Uwazima	+0·4	4·1	47	0	57	- 7	1	28	-27	—	—	—	—
Naha	+0·3	4·4	196	1	7a	0	2	2	+ 2	—	—	—	—
Husan	+0·2	4·6	0	1	8a	0	1	56	- 7	—	—	—	2·4
Matuyama	+0·2	4·6	42	1	5a	- 3	1	58	- 5	—	—	—	—
Hirosima	+0·1	4·9	36	1	6	- 5	2	3	- 5	—	—	—	—
Koti	+0·1	4·9	50	1	9a	- 2	2	5	- 3	—	—	—	—
Hamada	+0·1	5·1	29	1	11a	- 3	2	5	- 8	—	—	—	—
Muroto	+0·1	5·2	57	1	11a	- 4	2	12	- 3	—	—	—	—
Tadotu	+0·1	5·5	46	1	16a	- 4	2	17	- 6	—	—	—	—
Okayama	0	5·9	43	1	19	- 5	2	22	- 9	—	—	—	—
Tokusima	0	5·9	52	1	21a	- 3	2	28	- 3	—	—	—	—
Sakai	0	6·1	33	1	25	- 2	—	—	—	—	—	—	—
Sumoto	0	6·3	51	i 1	26a	- 4	2	33	- 8	e 4·4	—	—	—
Siomisaki	0	6·4	61	1	29	- 2	2	44	+ 1	—	—	—	—
Wakayama	0	6·4	52	1	27a	- 4	2	38	- 5	—	—	—	—
Kobe	-0·1	6·6	49	i 1	31a	- 1	2	41	- 5	—	—	—	2·8
Osaka	-0·1	6·8	51	1	36a	+ 1	3	29	+38	—	—	—	—
Foyooka	-0·1	7·0	42	1	34a	- 4	2	53	- 3	—	—	—	3·0
Yagi	-0·1	7·0	53	1	35a	- 3	2	53	- 3	—	—	—	—
Miyadu	-0·2	7·2	43	1	38	- 1	3	12	+13	—	—	—	—
Kyoto	-0·2	7·2	47	1	37a	- 2	—	—	—	—	—	—	—
Keizyo	-0·2	7·3	347	i 1	41a	0	i 2	58	- 3	—	—	—	3·1
Zinsen	-0·2	7·3	345	i 1	40a	- 1	i 3	3	+ 2	—	—	—	3·1
Iraigakizima	-0·2	7·5	216	1	27	-17	—	—	—	—	—	—	—
Kameyama	-0·2	7·6	53	1	45a	0	3	13	+ 4	—	—	—	—
Tu	-0·2	7·6	53	1	49	+ 4	—	—	—	—	—	—	—
Hibone	-0·2	7·7	50	1	46a	0	3	11	0	—	—	—	—
Ibukisan	-0·2	7·9	49	1	48a	- 1	3	13	- 3	—	—	—	—
Nagoya	-0·3	8·1	52	i 1	50a	- 1	3	24	+ 5	—	—	—	3·4
Gihu	-0·3	8·2	51	1	50a	- 2	3	2	-19	—	—	—	—
Hamamatu	-0·3	8·5	57	1	23a	-33	3	0	-29	—	—	—	—
Taihoku	-0·3	8·5	232	i 2	1a	+ 5	—	—	—	—	—	—	2·6
Giran	-0·3	8·6	230	2	0a	+ 2	—	—	—	—	—	—	—
Kanazawa	-0·4	8·8	44	1	58a	- 1	3	31	- 3	—	—	—	—
Omazaki	-0·4	8·8	59	2	0a	+ 1	3	43	+ 9	—	—	—	—
Nanking	-0·4	8·9	285	2	3	+ 3	i 3	47	+11	e 4·4	—	—	—
Takayama	-0·4	8·9	47	2	0	0	—	—	—	—	—	—	—
Heizyo	-0·4	9·0	344	e 2	0	- 2	i 3	42	+ 3	4·8	—	—	4·9
Iida	-0·4	9·0	53	2	1a	- 1	3	45	+ 6	—	—	—	—
Husiki	-0·4	9·2	44	2	6	+ 1	4	12	+28	—	—	—	—
Toyama	-0·4	9·2	45	2	5a	0	3	28	-16	—	—	—	—

Continued on next page.

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	Corr. for Focus	Δ °	Az. °	P.		O-C.		S.		O-C.		L. m.	M. m.
				m.	s.	s.	s.	m.	s.				
Karenko	-0.4	9.3	227	2	5	-	1	-	-	-	-	-	-
Matumoto	-0.4	9.4	50	2	8a	+	1	3	51	+	2	-	-
Numadu	-0.4	9.5	58	2	8a	-	1	4	8	+	17	-	-
Wazima	-0.4	9.5	41	1	47a	-	22	3	34	-	17	-	-
Hatidyozima	-0.5	9.6	71	2	10a	+	1	3	58	+	7	-	-
Hunatu	-0.5	9.6	55	2	10	+	1	4	15	+	24	-	-
Ito	-0.5	9.6	59	2	9a		0	3	54	+	3	-	-
Kohu	-0.5	9.6	54	2	9		0	3	59	+	8	-	-
Misima	-0.5	9.6	58	2	10a	+	1	4	10	+	19	-	-
Nagano	-0.5	9.8	48	2	13a	+	2	4	6	+	10	-	-
Taityu	-0.5	9.8	231	2	10	-	1	4	29	+	33	-	-
Oiwake	-0.5	9.9	51	2	13a		0	4	4	+	5	-	-
Arisan	-0.5	10.1	228	2	13	-	3	-	-	-	-	-	-
Mera	-0.5	10.1	61	2	17a	+	1	4	19	+	16	-	-
Takada	-0.5	10.1	47	2	17a	+	1	4	22	+	19	-	-
Yokohama	-0.5	10.2	58	2	19a	+	2	4	23	+	17	-	-
Maebasi	-0.5	10.3	52	2	18a		0	4	15	+	7	-	-
Deiren	-0.5	10.4	327	2	18	-	1	4	11		0	-	-
Kumagaya	-0.5	10.4	53	2	20a	+	1	4	20	+	9	-	-
Tokyo	-0.5	10.4	57	2	23a	+	4	4	25	+	14	-	-
Katuura	-0.5	10.5	61	2	24	+	3	-	-	-	-	-	-
Taito	-0.5	10.5	224	2	20	-	1	3	40	-	33	-	-
Hokoto	-0.6	10.9	233	2	19	-	6	-	-	-	-	-	-
Kakioka	-0.6	10.9	55	2	24a	-	1	4	28	+	7	-	-
Tainan	-0.6	10.9	228	2	28	+	3	5	12	+	51	-	-
Tukubasan	-0.6	10.9	55	2	25a		0	4	27	+	6	-	-
Utunomiya	-0.6	10.9	53	2	26	+	1	4	31	+	10	-	-
Takao	-0.6	11.1	227	2	35	+	7	-	-	-	-	-	-
Mito	-0.6	11.2	55	2	30	+	1	4	35	+	7	-	-
Niigata	-0.6	11.2	45	2	35	+	6	4	40	+	12	-	-
Tyosi	-0.6	11.2	59	2	29a		0	4	36	+	8	-	-
Kosyun	-0.6	11.3	223	2	28	-	3	4	46	+	15	-	-
Aidu	-0.7	11.6	49	2	50a	+	17	5	0	+	24	-	-
Onahama	-0.7	11.8	53	2	29	-	7	4	38	-	3	-	-
Hokusima	-0.7	12.0	48	2	37a	-	2	4	48	+	3	-	-
Titizima	-0.7	12.0	104	2	42	+	3	4	56	+	11	-	-
Yamagata	-0.7	12.1	47	2	41a	+	1	4	59	+	11	-	-
Fengtien	-0.7	12.2	340	1	42	-	60	3	59	-	51	-	-
Sendai	-0.7	12.5	48	2	44	-	2	5	0	+	2	-	-
Vladivostok	-0.8	12.8	8	i 2	50	+	2	i 5	12	+	9	-	8.8
Akita	-0.8	12.9	41	2	47	-	3	5	15	+	10	-	-
Isinomaki	-0.8	12.9	48	2	48	-	2	5	8	+	3	-	-
Mizusawa	-0.8	13.1	46	i 2	52		0	i 5	11	+	1	-	-
Morioka	-0.8	13.5	43	2	50	-	8	5	21	+	1	-	-
Hsinking	-0.9	13.7	349	3	15	+	16	5	50	+	28	-	-
Aomori	-0.9	14.1	39	3	2	-	3	-	-	-	-	-	-
Chiufeng	-0.9	14.2	316	i 3	8k	+	2	i 5	44	+	10	-	-
Hatinoka	-0.9	14.3	42	3	1	-	6	5	35	-	2	-	-
Hakodate	-1.0	14.7	37	3	21	+	10	-	-	-	-	-	-
Hong Kong	-1.1	15.6	242	3	21k	-	1	6	14	+	11	7.3	9.7
Sapporo	-1.1	16.0	34	3	24	-	3	6	27	+	14	-	-
Obihiro	-1.2	16.8	38	3	35	-	1	5	57	-	32	-	-
Asahigawa	-1.2	17.0	35	3	34	-	5	6	34		0	-	-
Haboro	-1.2	17.1	34	4	32	+	52	-	-	-	-	-	-
Manila	-1.3	17.5	207	i 3	47	+	3	i 6	51	+	8	-	-
Nemuro	-1.4	18.4	40	3	50	-	4	7	1	-	1	-	-
Phu-Lien	-1.8	22.3	250	i 4	34	-	1	i 8	19	+	3	9.7	-
Palau	-2.0	23.7	167	8	36	S		(8	36)	-	4	-	-
Calcutta	N. -3.2	37.0	269	6	44	+	5	12	9	+	6	16.1	-
Medan	-3.3	39.3	234	i 7	4	+	6	i 12	42	+	6	-	-
Semipalatinsk	-3.3	41.1	314	e 8	14	+	61	-	-	-	-	-	-
Betavia	-3.4	42.4	216	i 7	26	+	2	i 13	28	+	7	-	-
Agra	E. -3.6	44.4	279	i 7	37	-	2	i 13	47	-	1	-	-
Andijan	-3.7	46.3	299	e 8	0	+	7	e 14	22	+	7	-	-
Hyderabad	-3.8	47.9	266	10	2	PPP		14	40	+	3	16.5	19.2

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Tashkent	-4.0	48.6	300	i 8	5	- 5	i 14	45	+ 1	—	23.4
Samarkand	-4.0	50.6	298	e 8	26	+ 1	e 17	48	?	—	—
Colombo	-4.1	51.6	253	8	36	+ 4	15	34	+ 8	—	—
Bombay	N. -4.2	51.8	273	e 8	39	+ 6	i 15	40	+ 13	—	—
Kodaikanal	E. -4.2	51.9	260	i 8	39	+ 5	i 15	39	+ 10	23.4	—
Sverdlovsk	-4.2	53.2	320	i 9	2	+ 20	i 16	11	+ 24	25.6	—
College	-4.6	59.8	29	—	—	—	e 17	13	+ 1	—	—
Perth	-4.7	63.7	192	—	—	—	i 18	9	+ 6	—	—
Grozny	-4.7	65.0	307	10	25	+ 18	i 18	53	+ 33	—	—
Moscow	-4.7	66.0	322	—	—	—	e 20	17	?	e 40.6	50.2
Tiflis	-4.7	66.2	306	e 10	17	+ 2	18	44	+ 8	e 26.1	—
Piatigorsk	-4.7	66.6	309	e 9	39	- 39	i 18	25	- 16	—	—
Pulkovo	-4.8	68.1	328	—	—	—	19	3	+ 4	36.6	39.8
Melbourne	-4.9	69.9	167	—	—	—	19	27	+ 7	32.2	—
Theodosia	-4.9	71.3	313	—	—	—	i 19	41	+ 4	—	—
Simferopol	-4.9	71.5	313	—	—	—	e 19	50	+ 10	—	—
Yalta	-4.9	72.2	312	—	—	—	e 19	52	+ 4	—	—
Sebastopol	-4.9	72.7	312	—	—	—	e 19	58	+ 4	—	—
Ksara	-5.0	75.8	301	i 11	17k	+ 1	20	37	+ 6	—	—
Scoresby Sund	-5.0	76.9	351	—	—	—	26	39?	?	—	—
Victoria	-5.1	78.1	40	—	—	—	i 20	50	- 7	—	—
Copenhagen	-5.1	78.3	329	—	—	—	20	57	- 2	44.6	—
Vienna	z. -5.1	80.9	321	e 11	40	- 5	21	30	+ 1	—	—
Ukiah	-5.2	83.3	48	—	—	—	e 21	45	- 10	—	—
Stuttgart	-5.3	84.3	325	e 11	59	- 4	e 21	55	- 10	e 46.6	—
Berkeley	-5.3	84.7	49	i 12	1	- 4	e 21	56	- 13	—	—
Branner	-5.3	85.0	49	e 12	2	- 4	—	—	—	—	—
Strasbourg	-5.3	85.2	325	i 12	4a	- 3	i 22	9	- 6	e 46.6	—
Uccle	-5.3	85.2	329	i 12	6	- 1	22	0	- 15	—	—
Lick	-5.3	85.4	49	e 12	4	- 4	—	—	—	—	—
Zurich	-5.3	85.6	323	e 11	56	- 13	e 22	1	- 18	—	—
Basle	-5.3	85.9	324	e 12	6	- 5	e 22	19	- 3	—	—
Florence	-5.3	86.4	320	22	4	S	(22	4)	- 23	—	—
Santa Barbara	-5.4	88.3	50	i 12	18	- 5	—	—	—	—	—
Pasadena	-5.4	89.5	50	i 12	23k	- 6	e 22	48	- 11	—	—
Mount Wilson	z. -5.4	89.6	50	i 12	23k	- 6	i 22	28	- 32	—	—
Riverside	-5.4	90.2	50	e 12	25	- 7	—	—	—	—	—
La Jolla	-5.4	90.9	50	i 12	28k	- 8	i 22	34	- 39	—	—
Tucson	-5.5	95.5	47	e 12	45	- 12	e 23	4	- 52	e 45.5	—
Ottawa	—	100.8	17	—	—	—	e 23	21	?	e 36.6	—
Toronto	—	101.4	20	—	—	—	e 25	0	- 39	—	—
San Juan	—	129.0	18	e 21	49	PKS	—	—	—	—	—
Huancayo	—	150.9	56	19	13	[-30]	—	—	—	—	—
La Paz	—	159.0	52	i 19	23k	[-29]	i 43	20	SS	—	—
La Plata	—	172.8	129	31	9	PPPP	32	15?	{-12}	—	—

Additional readings:—

- Nagasaki $S_cS = +14m.30s.$
- Miyazaki $S_cS = +14m.32s.$
- Kumamoto $S_cS = +14m.51s.$
- Hukuoka B $S_cS = +14m.31s.$
- Simidu $S_cS = +14m.30s.$
- Naha $S_cS = +14m.36s.$
- Husan $S_cS = +14m.32s.$
- Matuyama $S_cS = +14m.32s.$
- Koti $S_cS = +14m.32s.$
- Hamada $S_cS = +14m.31s.$
- Sumoto $iS_cSEN = +14m.33s.$
- Stomisaki $S_cS = +14m.35s.$
- Wakayama $S_cS = +14m.33s.$
- Kobe SN = +2m.43s.
- Isigakizima $S_cS = +14m.23s.$
- Kameyama $S_cS = +14m.36s.$
- Nagoya $S_cS = +14m.36s.$
- Gihu $S_cS = +14m.35s.$
- Hamamatu $S_cS = +14m.5s.$

Continued on next page.

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Nanking $i = +4m.0s.$
 Kohu $S_cS = +14m.37s.$
 Nagano $S_cS = +14m.39s.$
 Arisan $S_cS = +14m.37s.$
 Yokohama $S_cS = +14m.38s.$
 Darien $S_cS = +14m.34s.$
 Tukubasan $S_cS = +14m.38s.$
 Kosyun $S_cS = +14m.41s.$
 Hukusima $S_cS = +14m.39s.$
 Titizima $S_cS = +14m.37s.$
 Sendai $S_cS = +14m.41s.$
 Akita $S_cS = +14m.41s.$
 Chiufeng $iZ = +3m.26s.$
 Hatinohe $S_cS = +14m.45s.$
 Hong Kong $PE = +3m.24s., ? = +4m.34s.$
 Sapporo $S_cS = +14m.52s.$
 Nemuro $S_cS = +14m.58s.$
 Calcutta $PPN = +7m.40s.$
 Kodaikanal $PPE = +10m.34s., PPPE = +11m.24s.$
 College $S = +17m.29s.$
 Moscow $i = +28m.39s.$
 Tiflis $pPE = +11m.12s., SPN = +11m.22s., eN = +19m.46s.$
 Piatigorsk $i = +19m.27s.$
 Pulkovo $e = +28m.15s.$
 Simferopol $e = +20m.30s.$
 Ksara $ipP = +12m.19s., SP = +12m.43s., pPP = +15m.13s., SS = +22m.17s., PKP, PKP = +38m.15s.$
 Stuttgart $epP = +13m.7s., ePS = +22m.57s.$
 Berkeley $iZ = +22m.4s., iE = +22m.58s., iZ = +23m.0s.$
 Strasbourg $i = +13m.9s. \text{ and } +24m.13s.$
 Florence $S = +22m.28s.$
 Pasadena $eSKSEN = +22m.26s., iS = +22m.51s., iSP = +24m.3s.$
 Mount Wilson $eSPZ = +23m.58s.$
 Tucson $e = +25m.3s. \text{ and } +26m.27s.$
 Ottawa $eE = +32m.33s.$
 Toronto $e = +23m.27s.$
 San Juan $ePKS = +21m.57s., e = +23m.25s.$
 Huancayo $i = +19m.19s., iPKP_2 = +19m.27s., e = +19m.38s., +19m.44s., \text{ and } +22m.51s., eSKSP = +32m.41s., eSS = +41m.57s.$
 La Paz $iPKP_2 = +20m.8s., eN = +48m.45s.$
 Long waves were also recorded at Granada and Jersey.

Dec. 1d. Readings also at 0h. (Wellington), 3h. (Wellington, Mount Wilson, Pasadena, Jersey, Samarkand, and near Andijan), 4h. (Helwan), 5h. (Chicago), 6h. (Strasbourg and Tiflis), 7h. and 9h. (near Santiago), 13h. (Pasadena), 14h. (Reykjavik and near San Javier), 17h. (Riverview, Christchurch, Tucson, Andijan, and Yalta), 20h. (Tucson), 21h. (near Berkeley).

Dec. 2d. 18h. 30m. 30s. Epicentre $39^\circ.3N. 70^\circ.5E.$ N.3.
 (as given by the stations of Central Asia).

$A = +.2583, B = +.7294, C = +.6334; \delta = -6;$
 $D = +.943, E = -.334; G = +.211, H = +.597, K = -.774.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2.0	45	0 31	+ 2	1 3	S_g	—	1.1
Tashkent	2.2	336	i 0 32	+ 1	i 1 8	S_g	—	1.7
Samarkand	2.8	278	e 0 37	- 3	1 22	S_g	—	—
Tchimkent	3.1	347	e 0 42	- 2	i 1 31	S_g	—	1.6
Frunse	4.7	39	e 1 7	0	2 7	+ 7	—	2.7
Sverdlovsk	18.7	342	—	—	e 7 54	SS	10.5	—
Tiflis	N. 19.6	286	e 4 8	-17	(e 8 0)	+ 2	e 8.0	—
Calcutta	N. 22.6	132	—	—	e 9 0	+ 3	—	—

Additional readings:—

Andijan $i = +33s., P_g = +35s., iPP = +41s., i = +44s.$
 Samarkand $iP_g = +42s., iPS = +56s.$
 Tchimkent $e = +58s., ePS = +1m.17s.$
 Frunse $e = +1m.17s., S_g = +2m.32s.$
 Sverdlovsk $e = +9m.9s. \text{ and } +10m.9s.$
 Baku records long waves.

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Dec. 2d. Readings also at 1h. (Samarkand, near Andijan, and near Sumoto), 2h. Tashkent(), 3h. (Calcutta and Phu-Lien), 4h. (Hong Kong, Vladivostok, Tashkent, and near Medan (2)), 5h. (near Frunse), 6h. (near Christchurch and New Plymouth), 9h. (Tucson), 11h. (La Paz and Santiago), 15h. (Montezuma, San Javier, and near Santiago), 16h. (Balboa Heights and near Santiago), 17h. (Rotorua (2)), 18h. (Cheb (3), Adelaide, Melbourne, Perth, Riverview, Rotorua, Wellington, Christchurch, and near Branner), 19h. (Hong Kong, near Manila, and near Berkeley), 21h. (Frunse, near Andijan, near Branner, and near Santiago), 22h. (near Andijan and near Santiago), 23h. (Cheb (3)).

Dec. 3d. 20h. Shock attributed to $31^{\circ}0'N$. $62^{\circ}5'E$. by stations of U.S.S.R. This determination appears in error, but a satisfactory alternative has not been found.

Agra eE = 1m.33s., eSE? = 7m.26s.
 Samarkand P = 4m.57s., e = 5m.44s.
 Erevan eP = 5m.9s.
 Tchimkent eP = 5m.12s., e = 6m.40s. and 8m.55s.
 Tashkent eP = 5m.18s., eS = 7m.30s., iL = 8m.30s., M = 8m.54s.
 Tiflis PE = 5m.27s., eN = 5m.40s., eEN = 7m.31s., eN = 8m.10s., i = 9m.28s., eL = 10m.30s. and 12m.30s., M = 16m.12s.
 Andijan eP = 5m.40s., e = 8m.23s. and 9m.49s.
 Baku eP = 5m.47s., S = 7m.22s., L = 8m.6s.
 Grozny eP = 5m.49s., eS = 7m.37s., e = 14m.22s.
 Piatigorsk eP = 5m.56s.
 Ksara 6m., M = 16m.
 Sochi eP = 6m.26s.
 Frunse eP = 6m.36s., e = 9m.21s. and 10m.52s.
 Almata e = 6m.47s.
 Semipalatinsk e = 7m.40s.
 Sverdlovsk P = 7m.41s., S = 11m.10s., L_q = 13m.24s., Lz = 15m.54s., M = 16m.24s.
 Moscow e = 8m.4s. and 13m.3s., eL = 14m.30s., M = 15m.18s.
 Bombay eE = 12m., eN = 13m., M = 17m.35s.
 Calcutta eE = 15m.35s., iE = 20m.6s.
 Long waves were also recorded at Pulkovo.

Dec. 3d. Readings also at 0h. (Bombay and Calcutta), 1h. (near Medan), 2h. (near La Paz), 3h. (Adelaide, Melbourne, Perth, Riverview, Arapuni, and Wellington), 6h. (near Manila and near Wellington), 7h. (Leipzig and near Mizusawa), 9h. (Leipzig), 10h. (Samarkand), 12h. (Calcutta), 13h. (near Santiago), 15h. (Sumoto, near New Plymouth, and Wellington), 17h. (Frunse and Tacubaya), 19h. (Frunse, near Andijan, and near Mizusawa), 20h. (near Santiago), 21h. (Andijan, Frunse, Erevan, Grozny, Piatigorsk, Samarkand, and Tchimkent), 23h. (Andijan, Samarkand, Tchimkent, and near Tashkent).

Dec 4d. 22h. 26m. 23s. Epicentre $22^{\circ}0'S$. $170^{\circ}2'E$. (as on 1936 Nov. 29d.). X.

A = - .9137, B = + .1578, C = - .3746; $\delta = +7$;
 D = + .170, E = + .985; G = + .369, H = - .064, K = - .927.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	16.8	165	—	—	e 7 1	+ 4	—	—
New Plymouth	17.4	170	e 3 37?	-22	—	—	9.6	—
Apia	19.0	67	4 19	0	—	—	—	—
Wellington	19.7	170	4 27	+ 1	8 17	+17	10.6	12.6
Riverview	E. 20.5	231	e 4 36	+ 1	i 8 27	+11	e 10.1	12.5
	N. 20.5	231	e 4 39	+ 4	i 8 31	+15	e 10.1	11.9
Sydney	20.5	231	e 2 1	?	—	—	11.9	12.6
Christchurch	21.6	176	i 4 45 _a	- 1	8 47	+ 9	10.8	12.7
Melbourne	26.8	229	5 47	+11	10 27	+15	13.4	16.4
Adelaide	30.5	237	e 5 41	-28	e 11 8	- 4	—	17.7
Perth	49.0	247	15 47	S	(15 47)	0	—	35.6
Vladivostok	74.0	332	—	—	e 21 3	- 5	32.8	—
Pasadena	z. 88.2	52	e 12 33	-16	—	—	—	—
Mount Wilson	z. 88.3	52	e 12 32	-17	—	—	—	—
Calcutta	N. 91.3	294	e 14 23	+80	i 24 4	- 4	—	—
Bombay	103.5	285	—	—	e 24 37?	[- 6]	—	—
La Paz	111.1	119	e 28 37	PS	—	—	72.6	81.0
Sverdlovsk	118.9	323	—	—	e 41 13	SS	52.6	—

For Notes see next page.

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NOTES TO Dec. 4d. 22h. 26m. 23s.

Additional readings :—

Arapuni $i = +9m.37s.$
 Apia PP = +4m.38s., SS = +8m.37s.?
 Wellington PP = +4m.57s., $i = +5m.55s.$, SS = +9m.58s.
 Christchurch $L_q = +9.3m.$
 Melbourne $e = +10m.13s.$
 Adelaide $e = +7m.7s. = PP + 4s.$ and +8m.40s., $i = +14m.17s.$
 Perth $e = +22m.47s.$ and +24m.37s.
 Vladivostok $e = +20m.11s.$
 Mount Wilson $eZ = +12m.48s.$, $iZ = +13m.21s.$
 Long waves were also recorded at Tifis and Tucson.

Dec. 4d. Readings also at 1h. (Rotorua), 3h. (Cheb, Vladivostok, Batavia, near Malabar (2), and near Chiufeng), 4h. (Sverdlovsk, Tifis, Tashkent, and near Mizusawa), 6h. (near Branner), 9h. (near Samarkand), 13h. (near Mizusawa and near Santiago), 15h. (near Berkeley (2), Branner, Lick, San Francisco (2), and near Nagoya), 16h. (Rotorua, near Berkeley, Branner, Lick, and San Francisco), 19h. (Almata, Andijan, Frunse, Samarkand, Semipalatinsk, and Tchikent), 20h. (near Branner), 23h. (Arapuni, New Plymouth, Wellington, Adelaide, Riverview, and near Mizusawa).

Dec. 5d. 0h. 37m. 50s. Epicentre $23^{\circ}0S.$ $74^{\circ}5W.$ N.3.

$A = +.2460,$ $B = -.8870,$ $C = -.3907;$ $\delta = -7;$
 $D = -.964,$ $E = -.267;$ $G = -.104,$ $H = +.376,$ $K = -.920.$

Doubtful. Probably deep focus.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Montezuma	5.2	87	e 1 10?	- 4	—	—	—	—
La Paz	8.8	44	i 2 9k	+ 4	i 2 52	-52	—	4.4
Huancayo	11.0	356	e 2 28	- 7	4 13	-25	4.9	—
Santiago	11.0	163	e 4 6	+91	6 45	$S_g?$	—	—
La Plata	18.7	133	4 16	+ 1	7 28	-12	9.6	—
Rio de Janeiro	28.8	95	—	—	(e 10 10)	-35	e 10.2	—
San Juan	42.2	11	e 7 44	- 6	12 57	-72	—	—
St. Louis	63.4	346	i 10 17	-11	e 18 27	-33	—	—
Tucson	65.3	327	(e 10 42)	+ 1	—	—	e 10.7	—
Oak Ridge	65.6	3	i 10 22	-20	—	—	—	—
Riverside	70.1	323	e 11 18	+ 7	—	—	—	—
Mount Wilson	70.6	323	i 11 20k	+ 6	—	—	—	—
Pasadena	70.6	323	i 11 19k	+ 5	—	—	—	—
Haiwee	72.0	324	i 11 27	+ 4	—	—	—	—
Tinemaha	72.9	324	i 11 32	+ 4	—	—	—	—
Toledo	90.8	46	i 12 36	-25	e 23 4	[-33]	—	—

Additional readings :—

Huancayo $sP = +2m.53s., e = +3m.5s., +3m.32s., +3m.37s., +4m.4s., S = +4m.22s., sS = +4m.43s.$
 San Juan $e = +12m.50s.$ and +15m.50s.
 St. Louis $eE = +10m.18s., eEN = +10m.35s., ipPEN = +10m.41s., isSEN = +19m.7s., iN = +19m.10s.$
 Oak Ridge $i = +10m.46s.$
 Mount Wilson $iZ = +11m.44s.$
 Pasadena $iZ = +11m.44s.$ and +11m.54s.
 Tinemaha $iZ = +11m.55s.$
 Toledo $pPZ = +13m.11s., PPSE = +25m.2s$

Dec. 5d. Readings also at 2h. (Tucson), 4h. (Mount Wilson, Pasadena, Tinemaha, Huancayo, and near La Paz), 5h. (Christchurch and Wellington), 6h. (Tucson), 8h. (near Santiago), 14h. (Christchurch, Wellington, Riverview, Perth, La Paz, and near San Javier), 18h. (Arapuni, San Javier, Grozny, near Erevan, and Tifis), 19h. (Apia, Christchurch, Wellington, New Plymouth, Adelaide, Melbourne, Riverview, Sydney, Perth, Huancayo, Bombay, Sverdlovsk, Mount Wilson, Pasadena, and near Berkeley (2)), 20h. (Baku, Tashkent, and Tifis), 22h. (Adelaide, Christchurch, Wellington, Riverview, Mount Wilson, Pasadena, and near Malabar), 23h. (Apia, Adelaide, Christchurch, Wellington, Perth, Riverview, Tucson, Mount Wilson, Pasadena, and near Santiago).

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Dec. 6d. Readings at 2h. (Riverview, Christchurch, Wellington (2), Mount Wilson, Pasadena, and Tinemaha), 3h. (Mount Wilson, Pasadena, and Tinemaha), 5h. (Göttingen and Jena), 6h. (Batavia and Manila), 10h. (Soengei Langka), 12h. (Apia), 14h. (near Wellington), 15h. (near Santiago), 16h. (Balboa Heights).

Dec. 7d. Readings at 3h. (Agra, Florence, and Jersey), 6h. (Calcutta), 7h. (Agra and Jersey), 8h. (near Samarkand), 9h. (near Sverdlovsk), 11h. (San Javier), 13h. (Frunse, Tashkent, Tchimkent, near Andijan, and Samarkand), 15h. (Grozny and near Sumoto), 16h. (Calcutta, Hong Kong, Phu-Lien, and Manila), 18h. (near Branner), 19h. (Tacubaya), 21h. (Calcutta, Tashkent, Sverdlovsk, Vladivostok, Pulkovo, Husan, Keizyo, Zi-ka-wei, Nanking, Hong Kong, and Hukuoka B), 22h. (Andijan and Copenhagen).

Dec. 8d. 10h. 24m. 26s. Epicentre $10^{\circ}2N$. $125^{\circ}7E$. N.3.

A = -0.5743, B = +0.7992, C = +0.1771; $\delta = -9$;
D = +0.812, E = +0.584; G = -0.104, H = +0.144, K = -0.984.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.4	314	i 1 30 a	- 1	1 36	-67	—	—
Palau	9.1	107	4 1	S	(4 1)	+10	—	—
Hong Kong	N. 16.4	319	3 44 k	- 2	6 56	+ 8	8.4	11.4
Phu-Lien	21.2	302	e 4 39	- 3	e 8 40	+10	—	—
Zi-ka-wei	Z. 21.4	350	e 4 44	0	8 38	+ 4	11.7	17.2
Kagosima	21.8	11	4 56	+ 7	—	—	—	—
Miyazaki	22.4	13	5 3	+ 8	9 5	+12	—	—
Tomie	22.6	7	5 1	+ 4	9 1	+ 4	—	—
Nanking	22.8	344	e 5 0	+ 1	9 8	+ 7	11.3	13.2
Kumamoto	23.1	10	5 4	+ 2	—	—	—	—
Hukuoka B	23.8	10	e 5 41	+33	e 10 2	SS	—	—
Koti	24.4	16	5 19	+ 5	9 22	- 8	—	—
Batavia	24.9	230	i 5 19	0	9 50	+11	—	—
Siomisaki	25.0	21	5 31	+11	—	—	—	—
Husan	25.1	5	—	—	e 9 52	+ 9	—	—
Wakayama	25.5	18	5 32	+ 7	9 59	+ 9	—	—
Nagoya	27.0	21	e 5 45	+ 7	6 54?	?	—	—
Medan	27.6	258	5 45	+ 1	—	—	—	—
Oiwake	28.6	21	6 3	+10	—	—	—	—
Chiufeng	31.1	346	e 6 14	- 1	i 11 17	- 4	13.5	21.3
Perth	43.2	192	16 34	S	(16 34)	SS	—	—
Adelaide	46.8	165	—	—	e 15 14	- 2	—	28.5
Kodaikanal	E. 47.4	275	e 8 34?	+ 2	—	—	—	—
Agra	E. 47.9	297	e 8 30	- 5	15 20	-11	—	—
Tashkent	58.3	313	e 9 56	+ 4	i 17 46	- 7	e 29.2	35.3
Sverdlovsk	68.0	328	e 11 2	+ 4	e 19 57	0	33.6	36.7
Baku	72.6	309	e 15 46	PPP	—	—	e 35.6	41.3
Tiflis	76.5	311	e 11 46	- 3	e 21 34	- 3	e 39.6	46.5
Ksara	84.2	303	i 12 30	+ 1	e 22 55	- 4	—	—

Additional readings:—

Hong Kong PP = +3m.51s., SS = +7m.7s., P_cP = +7m.54s.

Batavia SE? = +8m.16s.

Chiufeng IN = +7m.35s.

Adelaide e = +19m.39s. = SSSS - 2s.

Agra eSSE = +18m.19s., SSSE = +19m.28s.

Ksara ePS = +23m.44s., eSS = +28m.43s.

Long waves were also recorded at Keizyo, Copenhagen, Stuttgart, De Bilt, Hyderabad, Edinburgh, Strasbourg, and Paris.

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Dec. 8d. 20h. 16m. 6s. Epicentre $36^{\circ}5N$. $138^{\circ}5E$. (as on 1936 Jan. 13d.). X.

$$A = -.6021, B = +.5327, C = +.5948; \quad \delta = +8;$$

$$D = +.663, E = +.749; \quad G = -.446, H = +.394, K = -.804.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Nagoya	1.9	223	0 24	- 4	0 46	- 3	1.6
Toyooka	3.1	252	0 45	+ 1	1 16	- 4	1.4
Kobe	3.3	237	e 0 48	+ 1	e 1 22	- 3	1.7
Sumoto	N. 3.6	234	0 57	+ 6	e 1 36	+ 4	—
	Z. 3.6	234	0 52	+ 1	e 1 52	S _g 8	—
Hukuoka B	7.2	249	2 56	S	(2 56)	- 8	—

Sumoto eN = +2m.27s.

Dec. 8d. Readings also at 0h. (Andijan, Frunse, and near Almata), 1h. (Medan), 2h. (Rotorua), 3h. (near Sofia), 4h. (La Paz (2), Sofia, Mizusawa, and Rathfarnham Castle), 5h. (near Santiago), 6h. (Balboa Heights, Pasadena, and Tinemaha), 9h. (Huancayo (2), La Paz (2), Pasadena (2), Mount Wilson, Tinemaha (2), and San Juan), 10h. (Copenhagen, De Bilt, Bozeman, Tucson, and La Plata), 11h. (Batavia), 12h. (near Mizusawa), 13h. (Manila, Tashkent, Andijan, Frunse, and near Almata), 14h. (Adelaide, Perth, Batavia, Sverdlovsk, and Ksara), 17h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, and Manila), 19h. (New Plymouth and Wellington), 20h. (near Berkeley and near Sofia), 21h. (near Branner), 22h. (near Bucharest and Sofia (2)), 23h. (Malabar and near Batavia).

Dec. 9d. Readings at 1h. (near Christchurch), 3h. (Malabar), 4h. (Graz and near Florence), 7h. (Chur (2), Graz (2), Padova, Florence (3), Stuttgart, Vienna (2), Zurich (2), and near Zagreb (3)), 8h. (Andijan, Tiflis, and Ksara), 9h. (Andijan and near Berkeley), 11h. (Almeria), 14h. (Agra, Bombay, Calcutta, Hyderabad, Kodaikanal, Andijan, Frunse, and Tashkent), 15h. (Frunse, Tashkent, Sverdlovsk, and near Andijan), 17h. (Oak Ridge), 18h. (River-view, Nagoya, and near Mizusawa), 21h. (Malabar), 22h. (near Berkeley), 23h. (near Erevan).

Dec. 10d. 12h. 14m. 31s. Epicentre $33^{\circ}7N$. $135^{\circ}2E$. (as on 1936 Nov. 25d.). X.

$$A = -.5903, B = +.5862, C = +.5548; \quad \delta = -11.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Sumoto	0.7	338	i 0 8k	- 2	i 0 14	- 4	0.2
Kobe	1.0	359	0 13 _a	- 1	i 0 23	- 3	0.4
Toyooka	1.9	350	0 28	0	0 49	0	—
Nagoya	2.0	45	e 0 31	+ 2	0 57	S*	—

Toyooka ePN = +31s., ePE = +35s.

Dec. 10d. 13h. 25m. 54s. Epicentre $34^{\circ}5N$. $140^{\circ}0E$. (as on 1936 Oct. 25d.). R.2.

Very near the position suggested by Japanese stations $34^{\circ}4N$. $140^{\circ}1E$.

$$A = -.6313, B = +.5297, C = +.5664; \quad \delta = -7;$$

$$D = +.643, E = +.766; \quad G = -.434, H = +.364, K = -.824.$$

Correction for depth of focus 0.0125 has been applied.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Mera	+0.3	0.4	342	0 9k	- 1	0 20	+ 2	—
Katamura	+0.3	0.7	22	0 12	- 2	0 21	- 5	—
Susaki	+0.3	0.8	281	0 16k	0	0 29	+ 1	—
Ito	+0.3	0.9	302	0 15	- 2	0 31	0	—
Kamakura	+0.3	0.9	336	0 14	- 3	0 29	- 2	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	M.
				m.	s.		m.	s.		
Misima	+0.3	1.0	305	0	19k	+1	0	36	+3	—
Yokohama	+0.3	1.0	343	0	16k	-2	0	33	0	—
Numadu	+0.3	1.1	302	0	18k	-2	0	35	-1	—
Komaba	+0.3	1.2	347	0	17	-4	0	35	-4	—
Mitaka	+0.3	1.2	342	0	19	-2	0	37	-2	—
Tokyo	+0.3	1.2	350	0	19	-2	0	37	-2	0.6
Tokyo I.U.	+0.3	1.2	350	0	19	-2	0	37	-2	—
Hatidyozima	+0.3	1.4	185	0	18a	-6	0	33	-11	—
Hunatu	+0.3	1.4	314	0	22k	-2	0	43	-1	—
Omaesaki	+0.2	1.5	274	0	25k	+1	0	48	+4	—
Tyosi	+0.2	1.5	30	0	17a	-7	0	35	-9	—
Kakioka	+0.2	1.7	5	0	23a	-5	0	47	-2	—
Kohu	+0.2	1.7	314	0	25a	-3	0	49	0	—
Kumagaya	+0.2	1.7	343	0	26k	-2	0	50	+1	—
Tukubasan	+0.2	1.7	3	0	24	-4	0	47	-2	—
Hamamatu	+0.2	1.9	277	0	31k	+1	0	58	+4	—
Mito	+0.2	1.9	12	0	28	-2	0	54	0	—
Iida	+0.2	2.0	300	0	33k	+2	0	57	0	—
Maebasi	+0.2	2.0	338	0	31	0	0	58	+1	—
Utunomiya	+0.2	2.1	357	0	30	-3	0	55	-4	—
Oiwake	+0.2	2.2	327	0	34k	0	1	3	+1	—
Matumoto	+0.2	2.4	316	0	37k	0	1	10	+3	—
Nagano	+0.2	2.6	326	0	40a	0	1	13	+1	—
Nagoya	+0.2	2.6	285	0	38	-2	1	26	+14	1.9
Gihu	+0.2	2.8	289	0	43k	0	1	33	+16	—
Takayama	+0.2	2.8	306	0	44	+1	1	28	+11	—
Tu	+0.2	2.8	275	0	49	+6	—	—	—	—
Kameyama	+0.1	2.9	277	0	45	+2	1	21	+4	—
Takada	+0.1	3.0	331	0	52	+8	1	23	+3	—
Ibukisan	+0.1	3.1	287	0	48	+2	1	24	+2	—
Aidu	+0.1	3.1	2	0	52k	+6	1	27	+5	—
Hikone	+0.1	3.2	284	0	49k	+2	1	28	+3	—
Toyama	+0.1	3.2	314	0	48	+1	1	33	+8	—
Hukushima	+0.1	3.3	7	0	45	-4	—	—	—	—
Husiki	+0.1	3.3	315	0	57	+8	1	37	+10	—
Kanazawa	+0.1	3.4	307	1	0	+10	1	45	+15	—
Niigata	+0.1	3.5	349	1	6	+15	1	35	+3	—
Siomisaki	+0.1	3.6	254	0	56	+3	1	36	+1	—
Osaka	+0.1	3.7	274	0	52	-2	1	47	+10	—
Wazima	+0.1	3.8	318	0	56	0	1	42	+2	—
Yamagata	+0.1	3.8	5	0	50	-6	1	33	-7	—
Sendai	+0.1	3.9	10	0	51	-6	1	40	-2	—
Kobe	+0.1	4.0	274	0	59k	+1	e1	13	-32	2.6
Wakayama	+0.1	4.0	269	0	50k	-8	1	37	-8	—
Isinomaki	+0.1	4.1	15	1	38	+38	2	0	+12	—
Sumoto	E. +0.1	4.2	269	1	2k	+1	1	55	+5	2.4
	N. +0.1	4.2	269	e1	0k	-1	e1	48	-2	2.1
Toyooka	0.0	4.3	285	1	3	+2	1	24	-26	2.6
Mizusawa	E. 0.0	4.8	11	e1	7	-1	i2	0	-3	—
	N. 0.0	4.8	11	e1	11	+3	1	58	-5	—
Morioka	0.0	5.3	10	1	12	-3	2	10	-5	—
Hatinoke	0.0	6.2	11	1	21	-7	2	27	-11	—
Aomori	0.0	6.4	5	1	32	+1	2	43	0	—
Titizima	-0.1	7.6	166	1	55	+9	—	—	—	—
Kumamoto	-0.1	7.9	260	1	54a	+3	3	51	+32	—

Additional readings :—
Kobe SE = +1m.44s.
Toyooka PN = +1m.9s

Dec. 10d. Readings also at 0h. (near Erevan, near New Plymouth, and Wellington), 3h. and 4h. (La Paz), 5h. (Nanking and near Nagoya), 7h. (near Tashkent), 12h. (Pasadena and Tinemaha), 13h. (near Balboa Heights), 15h. (Tashkent and near Andijan), 16h. (Balboa Heights and Mizusawa), 18h. (Andijan, Tohimkent, and Malabar).

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Dec. 11d. 17h. Earthquake probably in Italy :—

Marseilles $iP_g = 25m.43s.$, $S_g = 26m.5s.$, $26m.11s.$, $26m.17s.$, $e = 26m.20s.$
 Chur $eP = 26m.0s.$
 Zurich $eP = 26m.2s.$, $eS_g = 26m.52s.$
 Basle $eP = 26m.4s.$, $e = 26m.15s.$, $eS_g = 27m.3s.$
 Besançon $e = 26m.8s.$, $eL = 27m.0s.$
 Florence $eP = 26m.11s.$, $L = 26m.52s.$
 Strasbourg $e = 27m.$, $eS_g = 27m.42s.$
 Stuttgart $eP_g = 27m.15s.$

Dec. 11d. Readings at 0h. (Rotorua), 6h. (Ksara, Erevan, and Tiflis), 9h. (near Berkeley, Branner, Lick, and San Francisco), 10h. (La Paz, Tacubaya, and near Nagoya), 12h. (La Paz), 16h. (Tacubaya), 17h. (La Plata), 20h. (Fresno, near Christchurch, New Plymouth, and Wellington), 21h. (near Manila).

Dec. 12d. Readings at 1h. (Pasadena, Mount Wilson, and New Plymouth), 2h. (Mount Wilson, Pasadena, Tinemaha, Oak Ridge, San Juan, Ksara, and New Plymouth), 3h. (Port au Prince, Wellington, and near Medan), 4h. (Marseilles and near Santiago), 8h. (Baku, Frunse, Samarkand, Tashkent, Sverdlovsk, Andijan, Manila, Batavia, and Sydney), 9h. (Andijan), 11h. (San Javier and near Santiago), 12h. (Andijan, Frunse, and near Samarkand), 17h. (Sofia, La Paz (2), Haiwee, Mount Wilson, and Pasadena).

Dec. 13d. 16h. 10m. 44s. Epicentre $4^{\circ}0S.$ $128^{\circ}3E.$ (as on 1935 March 16d.). X.

$A = -0.6183$, $B = +0.7829$, $C = -0.0698$; $\delta = +10$;
 $D = +0.785$, $E = +0.620$; $G = +0.043$, $H = -0.055$, $K = -0.997$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	20.0	338	i 4 25 _a	- 5	5 50	?	—	—
Batavia	21.5	263	4 50	+ 5	e 8 44	+ 8	—	—
Perth	30.3	201	11 16?	S	(11 16?)	+ 7	—	—
Chiufeng	45.5	347	e 8 19	+ 2	15 0	+ 3	—	—
Calcutta	N. 47.1	307	e 8 51	+22	—	—	—	—
Vladivostok	47.3	4	—	—	e 14 22	-61	—	—
Andijan	67.8	317	e 11 6	+ 9	—	—	—	—
Tashkent	70.2	317	e 11 9	- 3	i 20 21	- 3	—	35.3
Sverdlovsk	81.4	329	12 34	+19	e 23 9	+38	40.3	—
Baku	83.8	311	—	—	(e 22 58)	+ 3	e 23.0	—
Tiflis	87.9	312	e 12 57	+10	e 23 32	- 4	—	—
Ksara	94.2	303	e 13 30	+13	e 24 30	- 5	—	—
Tinemaha	z. 111.0	51	i 18 55	PP	—	—	—	—
Mount Wilson	z. 111.7	54	i 18 57	PP	—	—	—	—
Pasadena	z. 111.7	54	i 18 56	PP	—	—	—	—

Additional readings :—

Batavia $iE = +10m.3s.$
 Vladivostok $e = +15m.18s.$ and $+18m.47s.$
 Sverdlovsk $PP = +15m.54s.$, $SS = +28m.4s.$
 Ksara $ePP = +17m.4s.$, $ePS = +25m.30s.$

Dec. 13d. 18h. 27m. 3s. Epicentre $39^{\circ}3N.$ $70^{\circ}5E.$ (as on 1936 Dec. 2d.). X.

The stations suggest $39^{\circ}0N.$ $70^{\circ}3E.$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Andijan	2.0	45	e 0 29	0	i 0 51	0	2.2
Tashkent	2.2	336	e 0 27	- 4	i 1 13	S_g	1.6
Samarkand	2.8	278	0 33	- 7	1 15	+ 3	2.0
Frunse	4.7	39	e 1 9	+ 2	e 2 2	+ 2	—
Almata	6.2	49	e 1 49	P^*	e 3 20	S_g	—

Additional readings :—

Andijan $iP_g = +33s.$, $iPP = +37s.$ and $+41s.$, $i = +47s.$ and $+57s.$, $S_g = +1m.5s.$
 Samarkand $e = +54s.$
 Frunse $eP_g = +1m.23s.$, $eS_g = +2m.11s.$, $e = +2m.29s.$ and $+2m.39s.$
 Long waves were also recorded at Semipalatinsk and Sverdlovsk.

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Dec. 13d. 21h. 30m. 52s. Epicentre 13°·6N. 145°·4E. N.1.

A = -·8001, B = +·5519, C = +·2351; $\delta = +3$;
D = +·568, E = +·823; G = -·194, H = +·134, K = -·972.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	12·4	241	2 53	- 1	—	—	—	—
Titizima	13·8	348	3 17	+ 4	—	—	—	—
Nake	20·9	318	4 39	0	8 40	+16	—	—
Mera	21·9	347	4 45	- 5	8 52	+ 8	—	—
Miyazaki	22·3	327	4 56	+ 2	8 49	- 3	—	—
Numadu	22·3	345	4 56	+ 2	—	—	—	—
Simidu	22·3	331	4 52	- 2	8 56	+ 4	—	—
Misima	22·3	345	4 52	- 2	—	—	—	—
Yokohama	22·4	348	4 51	- 4	8 54	+ 1	—	—
Kagosima	22·5	324	4 58	+ 2	—	—	—	—
Tyosi	22·5	351	4 56	0	9 1	+ 6	—	—
Wakayama	22·6	338	4 56 ^k	- 1	9 3	+ 6	—	—
Hunatu	22·7	345	4 56	- 2	9 0	+ 1	—	—
Kameyama	22·7	342	5 2	+ 4	8 58	- 1	—	—
Koti	22·7	334	4 57	- 1	9 8	+ 9	—	—
Sumoto	22·7	338	i 4 57 ^k	- 1	9 6	+ 7	—	9·3
Tokyo	22·7	348	4 57	- 1	9 11	+12	—	—
Kohu	22·9	345	5 2	+ 2	9 14	+11	—	—
Nagoya	22·9	344	e 5 0	0	—	—	9·2	—
Osaka	22·9	339	5 2	+ 2	—	—	—	—
Iida	23·0	345	5 1	0	—	—	—	—
Kobe	23·0	339	5 0 ^k	- 1	e 8 55	-10	—	14·3
Gihu	23·1	344	5 3	+ 1	9 5	- 2	—	—
Kyoto	23·1	341	5 2	0	—	—	—	—
Tukubasan	23·1	351	4 59	- 3	9 2	- 5	—	—
Hikone	23·2	344	5 6	+ 3	—	—	—	—
Kumagaya	23·2	348	5 1	- 2	9 21	+13	—	—
Matuyama	23·3	334	5 3 ^k	- 1	9 14	+ 4	—	—
Kumamoto	23·4	328	5 3 ^k	- 2	—	—	—	—
Maebasi	23·5	348	5 8	+ 3	9 16	+ 2	—	—
Okayama	23·5	339	5 5	0	9 18	+ 4	—	—
Matumoto	23·6	345	5 8	+ 2	—	—	—	—
Oiwake	23·6	345	5 5	- 1	—	—	—	—
Unzendake	23·6	327	5 6	0	9 39	+23	—	—
Manila	23·7	276	i 5 9 ^a	+ 2	i 9 19	+ 1	11·1	—
Nagasaki	23·8	327	5 10	+ 2	—	—	—	—
Nagano	23·9	346	5 11	+ 2	9 33	+12	—	—
Toyooka	23·9	337	5 7	- 2	9 28	+ 7	—	—
Hukuoka	24·2	329	5 11	- 1	9 0	-27	—	—
Hukuoka B	24·2	329	5 11	- 1	e 9 28	+ 1	—	—
Toyama	24·2	345	5 10	- 2	9 38	+11	—	—
Tomie	24·3	324	5 13	0	9 17	-11	—	—
Aidu	24·4	350	5 41	+27	—	—	—	—
Takada	24·4	347	5 46	+32	—	—	—	—
Hamada	24·5	333	5 14	- 1	9 31	- 1	—	—
Hokusima	24·5	350	5 14	- 1	9 42	+10	—	—
Karenko	24·8	298	5 19	+ 1	—	—	—	—
Taito	24·8	296	5 20	+ 2	9 41	+ 4	—	—
Kosyun	24·9	294	5 24	+ 5	—	—	—	—
Sendai	25·0	353	5 34	+14	—	—	—	—
Wazima	25·0	345	4 57	-23	—	—	—	—
Yamagata	25·1	353	5 26	+ 5	—	—	—	—
Tafhoku	25·2	301	e 5 31	+ 9	e 9 58	+14	—	—
Misusawa	25·8	353	e 5 31	+ 4	e 9 53	- 2	13·3	—
Husan	26·1	328	5 29	- 1	e 7 6	?	10·2	—

Continued on next page

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Akita	26.5	352	5 42	+ 8	10 6	- 1	—	—
Taiyu	26.9	298	5 28	- 9	9 51	-23	—	—
Zi-ka-wei	28.2	313	5 44	- 5	10 24	-11	i 15.1	21.7
Keizyo	29.0	329	5 57	+ 1	e 10 16	-32	—	—
Zinsen	29.1	328	—	—	e 10 8?	-42	—	—
Nanking	30.5	311	i 6 10	+ 1	i 11 10	- 2	13.7	—
Hong Kong	30.9	291	6 19	+ 6	11 17	- 1	—	17.3
Vladivostok	31.7	342	e 6 18	- 2	e 11 25	- 6	16.4	21.1
Chiufeng	36.9	322	7 3k	- 3	12 45	- 5	i 15.2	26.3
Phu-Lien	37.6	287	e 7 13	+ 1	12 58	- 2	—	—
Batavia	43.1	245	7 55	- 3	13 17	-65	—	—
Riverview	47.8	173	e 8 26	- 9	e 15 44	+14	e 21.8	26.5
Sydney	47.8	173	e 11 32	PPPP?	—	—	23.1	24.4
Adelaide	49.0	187	e 9 53	+69	i 15 38	- 9	—	32.6
Melbourne	51.4	180	—	—	i 16 24	+ 4	—	—
Perth	53.6	211	9 8	-10	i 16 43	- 7	24.3	27.1
Honolulu	54.4	73	e 13 58	?	—	—	—	—
Calcutta	54.7	288	e 9 27	+ 1	17 2	- 3	e 27.3	—
Wellington	61.2	155	10 16	+ 3	18 28	- 4	28.1	36.1
Christchurch	62.3	158	i 10 23a	+ 3	i 18 48	+ 2	30.6	—
Semipalatinsk	63.8	320	e 10 13	-18	—	—	—	—
Agra	63.9	294	i 10 25	- 6	18 54	-12	—	—
Colombo	64.7	271	10 26	-11	19 34	+18	—	36.9
Kodaikanal	66.4	276	e 10 8?	-40	—	—	—	—
Frunse	66.8	311	e 10 34	-17	—	—	—	—
Andijan	68.4	309	e 10 27	-34	—	—	—	—
Bombay	69.4	285	11 7	0	20 7	- 7	—	—
Tashkent	70.7	310	e 11 10	- 5	i 20 20	-10	e 34.1	40.0
Samarkand	72.5	307	e 11 8	-18	—	—	—	—
Sverdlovsk	75.8	326	i 11 55	+10	21 34	+ 5	34.1	45.4
Berkeley	83.5	53	e 12 27	+ 1	—	—	—	—
Baku	85.3	311	e 12 33	- 2	i 23 1	[0]	43.6	51.9
Fresno	85.7	53	e 12 38	+ 1	—	—	—	—
Santa Barbara	86.3	56	e 12 42	+ 2	—	—	—	—
Tinemaha	86.8	53	i 12 44	+ 2	—	—	—	—
Haiwee	87.2	53	i 12 46	+ 2	—	—	—	—
Grozny	87.6	314	e 13 36	+50	—	—	47.1	—
Pasadena	87.6	55	i 12 47k	+ 1	i 23 29	- 4	—	—
Mount Wilson	87.7	55	i 12 48k	+ 2	—	—	—	—
Riverside	88.3	55	e 12 51	+ 2	—	—	—	—
Moscow	88.5	327	e 12 39	-11	e 23 9	[-14]	42.1	49.2
La Jolla	88.7	57	i 12 53	+ 2	—	—	—	—
Tiflis	88.7	313	e 12 45	- 6	e 23 41	- 3	e 45.1	58.2
Erevan	89.4	311	e 16 1	PP	—	—	—	—
Pulkovo	90.3	333	12 54	- 5	e 23 48	-11	44.1	54.9
Tucson	94.0	55	e 13 20	+ 4	e 24 20	-13	e 42.6	—
Scoresby Sund	95.5	356	17 14	PP	—	—	47.1	—
Ksara	98.0	307	e 13 25	- 9	—	—	—	—
Copenhagen	100.3	335	17 38	PP	26 8?	?	50.1	—
Hamburg	102.8	334	—	—	e 31 8?	SS	—	—
Helwan	103.1	305	i 18 14	PP	—	—	—	—
Cheb	104.2	331	e 12 8?	?	—	—	—	72.1
De Bilt	105.9	336	e 18 32	PP	e 33 39	SS	e 48.1	67.6
Stuttgart	106.6	331	e 18 37	PP	—	—	e 54.1	66.1
Uccle	107.2	335	e 18 41	PP	e 28 14	?	e 49.1	—
Strasbourg	107.4	332	e 20 8?	PPP	e 29 8?	?	e 42.1	—
Paris	109.5	334	e 19 0	PP	—	—	58.1	65.1
Toledo	119.4	333	—	—	i 25 18	[-30]	64.1	—
San Juan	135.4	45	e 21 44	PP	—	—	e 61.9	—
Huancayo	140.3	93	e 19 38	[+16]	—	—	e 65.1	—
La Paz	147.5	99	i 19 40k	[+ 2]	26 26	SKS	73.1	83.3
Río de Janeiro	167.6	140	e 25 8	PP	—	—	—	—

For Notes see next page.

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NOTES TO DEC. 13d. 21h. 30m. 52s.

Additional readings :—

Kobe iNZ = +5m.2s., eSZ = +8m.58s., SSZ = +9m.11s., SSN = +9m.14s.
 Toyooka PE = +5m.9s., PZ = +5m.13s.
 Mizusawa eSE = +10m.9s.
 Zi-ka-wei PPZ = +6m.34s., iZ = +7m.14s.
 Nanking PP = +7m.0s., eE = +13m.12s.
 Chiufeng PPNZ = +8m.16s
 Riverview eEN = +11m.2s.
 Adelaide e = +14m.8s. and +19m.23s.
 Perth SP = +17m.18s., SS = +20m.28s.
 Honolulu eSS = +21m.16s.
 Calcutta e = +8m.57s., SSN = +21m.10s., SSSN = +23m.7s.
 Christchurch sS = +22m.54s., L_q = +26.3m.
 Agra ePPE = +12m.53s., ePPPE = +14m.4s., eSSE = +23m.8s., SSSE = +25m.9s.
 Andijan e = +10m.42s.
 Baku PP = +15m.53s., PPP = +18m.33s., SS = +29m.44s., SSS = +35m.8s.
 Grozny i = +15m.5s., e = +17m.13s.
 Moscow PP = +15m.44s., SS = +29m.26s.
 Tifis eN = +12m.53s. and +17m.4s., eE = +19m.58s., eSKSN = +23m.11s., eSSSE = +33m.2s.
 Pulkovo PP = +16m.33s., PPP = +18m.32s., PS = +24m.58s., SS = +29m.38s., SSS = +35m.20s.
 Tucson ePS = +25m.44s., eSS = +31m.8s., eSSS = +34m.50s., e = +38m.50s.
 Scoresby Sund = +26m.2s.
 Ksara i = +17m.40s., iPS = +25m.54s.
 Copenhagen SS = +32m.20s.
 Helwan i = +19m.38s., +27m.14s., and +28m.13s.
 Huancayo ePP = +22m.32s., ePKS = +22m.56s., e = +30m.44s., +36m.2s., and +41m.26s.
 De Bilt eN = +27m.56s.
 Stuttgart ePPS = +28m.50s.
 Uccle eSSE = +33m.56s.
 Toledo SKKSE = +26m.31s., SKKKSE = +26m.41s., PPSN = +30m.46s., SSN = +35m.52s., PKP,PKPEN = +37m.35s.
 San Juan ePS = +32m.32s.
 La Paz iZ = +19m.52s. and +21m.27s., iPPZ = +23m.17s.
 Long waves were also recorded at Philadelphia, Kew, Bidston, San Fernando, Göttingen, Prague, Zagreb, Graz, and Upsala.

Dec. 13d. Readings also at 4h. (Andijan), 7h. (Andijan and Samarkand), 9h. (near Nagoya), 11h. (near Manila), 12h. (Mount Wilson, Pasadena, and Tinemaha), 13h. (Tacubaya), 15h. (Grozny, near Erevan, and Tifis), 19h. (Andijan, Samarkand, Frunse, and near San Javier), 20h. (Frunse, Samarkand, and near Andijan), 21h. (Wellington), 22h. (Erevan, near Grozny, and Tifis).

Dec. 14d. 4h. 3m. 40s. Epicentre 13°·3N. 120°·4E. (as on 1933 Sept. 28d.). R.2.

A = -·4924, B = +·8394, C = +·2300; δ = -5;
 D = +·863, E = +·506; G = -·116, H = +·198, K = -·973.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	1·4	24	i 0 23k	P _g	i 0 41	S _g	—	—
Kosyun	8·7	2	2 4	+ 1	—	—	—	—
Taito	9·5	4	2 19	+ 5	4 20	+19	—	—
Arisan	10·2	3	2 25	+ 1	—	—	—	—
Hong Kong	10·8	328	2 22 _a	-10	5 18	S*	—	10·2
Karenko	10·8	6	2 33	+ 1	—	—	—	—
Palau	15·1	112	3 37	+ 7	—	—	—	—
Phu-Lien	15·1	302	i 3 23	- 7	e 6 10	- 7	7·3	—
Nake	17·3	28	3 56	- 2	—	—	—	—
Zi-ka-wei	17·9	3	e 3 59	- 6	7 17	- 5	10·5	14·6
Nanking	18·8	356	e 4 12	- 4	i 7 43	+ 1	9·2	—
Kagosima	20·5	26	4 38	+ 3	—	—	—	—
Nagasaki	21·3	23	4 45	+ 2	8 20	-12	—	—
Kumamoto	21·7	24	4 45	- 3	—	—	—	—
Hukuoka B	22·2	23	4 36	-17	7 54	-56	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.		O - C. s.	S. m. s.		O - C. s.	L. m.	M. m.
Husan	23.2	18	e 5	3	0	e 9	7	- 1	—	—
Medan	23.5	248	5	3	- 2	i 9	25	+11	—	—
Koti	23.6	29	5	11	+ 5	9	27	+11	—	—
Batavia	23.7	215	5	10	+ 3	9	31	+13	—	—
Wakayama	24.8	31	5	25	+ 7	—	—	—	—	—
Keizyo	25.0	13	e 5	13	- 7	e 9	38	- 3	e 12.9	—
Osaka	25.5	30	5	37	+12	—	—	—	—	—
Kameyama	26.0	32	5	32	+ 3	—	—	—	—	—
Hikone	26.2	31	5	31	0	—	—	—	—	—
Nagoya	26.5	32	e 4	56	-38	6	3	?	—	—
Gihu	26.6	31	5	39	+ 4	10	37	+28	—	—
Chiufeng	27.1	352	5	32 _a	- 7	i 10	4	-13	i 11.7	14.9
Oiwake	28.2	32	6	7	+18	—	—	—	—	—
Nagano	28.3	31	6	11	+21	—	—	—	—	—
Calcutta	N. 31.8	292	e 5	45	-36	11	23	- 9	15.8	21.4
Colombo	40.4	265	7	38	+ 3	13	41	- 1	20.0	25.0
Hyderabad	40.6	282	7	34	- 3	13	40	- 5	17.2	25.2
Agra	E. 41.9	296	e 7	38	-10	13	49	-16	—	—
Perth	45.5	185	14	50	S	(14	50)	- 7	—	—
Bombay	46.0	284	i 8	20	- 1	i 14	54	-10	—	—
Frunse	49.2	316	e 8	43	- 2	e 15	39	-11	—	—
Semipalatinsk	49.4	328	e 8	44	- 3	—	—	—	—	—
Andijan	50.0	313	e 8	48	- 3	e 15	43	-18	—	—
Tashkent	52.4	313	e 9	7	- 2	(e 16	20?)	-14	e 16.3	32.9
Samarkand	53.6	310	e 9	20	+ 2	—	—	—	—	—
Sverdlovsk	62.6	328	—	—	—	e 19	45	+55	28.8	39.4
Baku	66.6	309	i 10	50	+ 1	i 19	36	- 4	32.3	44.5
Grozny	69.8	312	e 11	10	+ 1	—	—	—	45.3	—
Tiflis	70.5	311	e 11	18	+ 4	e 20	18	- 9	e 35.3	47.5
Erevan	70.8	308	e 11	8	- 8	—	—	—	—	—
Piatigorsk	71.7	312	e 11	18	- 3	—	—	—	—	—
Moscow	75.0	325	e 11	37	- 3	e 21	3	-17	37.8	44.6
Theodosia	77.2	314	e 11	49	- 4	—	—	—	—	—
Yalta	78.0	313	e 11	49	- 8	—	—	—	—	—
Ksara	78.1	302	i 11	58 _k	0	e 21	50	- 5	—	49.8
Pulkovo	78.6	329	11	57	- 3	21	44	-16	40.3	46.9
Scoresby Sund	92.3	349	—	—	—	23	20?	[-26]	50.3	—
Toledo	106.0	319	—	—	—	e 26	11	{+33}	40.8	54.8
San Juan	147.6	12	e 19	44	[+ 6]	—	—	—	—	—
Huancayo	164.6	88	e 20	4	[+ 5]	e 32	2	{+19}	e 76.9	—
Montezuma	167.2	138	—	—	—	e 34	20?	SKSP	—	—
La Paz	171.2	113	e 29	26?	PPP	—	—	—	90.3	106.1

Additional readings :—

Hong Kong ? = +4m.23s.

Zi-ka-wei iZ = +4m.9s.

Osaka i = +6m.52s.

Chiufeng iPPNZ = +6m.5s.

Agra PPPE = +9m.17s., SSE = +16m.55s.

Bombay iE = +10m.2s. and +18m.28s.

Tashkent e = +9m.49s., +10m.29s., and +14m.18s.

Tiflis eSSN = +25m.28s., eSSSE = +28m.18s., eN = +33m.3s.

Ksara ePS = +22m.32s., eSS = +29m.2s.

Toledo SSN = +33m.26s.

Huancayo e = +35m.53s., eSS = +44m.20s., e = +48m.26s.

La Paz PN = +37m.4s.

Long waves were also recorded at Christchurch, Copenhagen, Paris, De Bilt, Strasbourg, San Fernando, Prague, Hamburg, and Stuttgart.

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Dec. 14d. 10h. 5m. 40s. Epicentre $41^{\circ}5'N$. $45^{\circ}5'E$. (as on 1936 May 9d.). X.

$$A = +.5250, B = +.5342, C = +.6626; \quad \delta = +3;$$

$$D = +.713, E = -.701; \quad G = +.464, H = +.473, K = -.749.$$

Stations of the Caucasus give $41^{\circ}2'N$. $45^{\circ}7'E$.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tifis	0.6	292	i 0 16	+ 7	—	—	i 0.5	—
Erevan	1.5	225	0 19	- 2	i 0 37	- 2	—	0.8
Grozny	1.8	6	0 47	S	(0 47)	+ 1	—	1.8
Piatigorsk	3.1	325	e 0 49	P*	e 1 19	- 1	—	1.7
Sotchi	4.7	298	e 1 19	P*	—	—	—	—
Ksara	10.8	228	e 3 18	+46	—	—	—	6.0

Additional readings:—

Erevan e = +24s. and +32s.

Grozny e = +59s. and +1m.9s., $S_s = +1m.18s.$, e = +1m.25s.

Piatigorsk e = +1m.32s. and +1m.37s.

Sotchi e = +1m.49s., +1m.55s., +1m.59s., and +2m.5s.

Dec. 14d. Readings also at 1h. (Huancayo, La Paz, and Montezuma), 2h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, Andijan, and Samarkand), 4h. (Haiwee, Mount Wilson (2), Pasadena (2), Tinemaha (2), Kodaikanal, Nagoya, and near Sumoto), 6h. (Oaxaca, Tacubaya, Mount Wilson, Tinemaha, and Kodaikanal), 7h. (Medan), 9h. (Santiago, Frunse, Andijan, and near Almata), 17h. (San Juan), 18h. (Grozny, Piatigorsk, near Erevan (2), Sotchi, and near San Javier), 20h. (Christchurch, Mount Wilson, and Pasadena), 21h. (Andijan, Samarkand, Ksara (2), Sebastopol, Simferopol, near Theodosia, Yalta, and Tifis).

Dec. 15d. Readings at 0h. (Rio de Janeiro), 13h. (near Manila), 16h. (near Sotchi), 17h. (near Berkeley and near Sotchi), 18h. (Nanking, near Taihoku, near Amboina, near Kobe, and Sumoto), 19h. (Florence), 21h. (Andijan), 22h. (Ukiah).

Dec. 16d. Readings at 0h. (Ukiah), 5h. (Erevan, Piatigorsk, Tifis, and near Grozny), 6h. (Tacubaya), 7h. (La Paz, Mount Wilson, Pasadena, Tinemaha, and Prague), 11h. (near Berkeley and Branner), 12h. (Huancayo and La Paz), 13h. (College and Tacubaya), 16h. (Malabar), 17h. (Andijan and Samarkand), 19h. (Riverview, Christchurch, and Wellington), 22h. (Cheb).

Dec. 17d. Readings at 3h. (Adelaide, Riverview, Sydney, Christchurch, Arapuni, Apia, Wellington, and Huancayo), 4h. (Perth, Tucson, La Paz, and Sverdlovsk), 5h. (Baku, Tifis, and Ksara), 7h. (near Santiago), 8h. (Yalta and near Wellington), 10h. (near Samarkand), 11h. (near Batavia and Malabar), 12h. (La Paz and Mizusawa), 13h. (Andijan, Frunse, Samarkand, Apia (2), Adelaide, Perth, Riverview, Sydney, Huancayo, and Christchurch), 14h. (Hong Kong, Tashkent, Baku, Sverdlovsk, La Paz, Riverview, and Huancayo), 15h. (near Santiago), 18h. (Batavia, near Malabar, Andijan, and near Samarkand), 21h. (Apia, Christchurch, Riverview, Sydney, Perth, Huancayo, Bucharest, Samarkand, and near Andijan), 22h. (Baku, Sverdlovsk, Tifis, and near Berkeley), 23h. (Riverview).

Dec. 18d. Readings at 2h. (La Paz), 3h. (near Manila), 4h. (near Andijan), 5h. (Huancayo, San Juan, Tucson, Frunse, Samarkand, and near Andijan), 10h. (Melbourne, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, and near Santiago), 11h. (Little Rock), 15h. (Calcutta and Kodaikanal), 17h. (Tacubaya), 18h. (Huancayo), 19h. (near Mizusawa), 21h. (Medan).

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Dec. 19d. 2h. 57m. 34s. Epicentre 27°·6S. 66°·3W. (as on 1929 Nov. 18d.). X.

$$A = +.3562, B = -.8115, C = -.4633; \quad \delta = +6;$$

$$D = -.916, E = -.402; \quad G = -.186, H = +.424, K = -.886.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	7.0	211	1 34	- 5	2 32	-27	—	—
San Javier	9.3	208	2 15	+ 4	3 45	-11	—	—
La Plata	10.2	137	2 25	+ 1	4 15	- 3	4.8	—
La Paz	N. 11.2	350	2 44	+ 7	i 4 44	+ 1	i 5.6	6.5
Huancayo	17.7	330	e 3 54	- 9	e 7 15	- 2	e 10.8	—
San Juan	45.9	0	—	—	e 18 8	SS	—	—
Tacubaya	N. 56.7	322	11 37	PP	—	—	—	—
Mount Wilson	Z. 78.8	319	i 11 49	-12	—	—	—	—
Pasadena	Z. 78.8	319	e 11 49	-12	—	—	—	—
Tinemaha	Z. 81.0	319	i 12 0	-13	—	—	—	—

Additional readings :—

La Paz iN = +5m.18s.

Huancayo PP = +4m.2s., PPP = +4m.17s., e = +5m.40s., iS = +7m.20s.

Mount Wilson eZ = +12m.30s.

Pasadena eZ = +12m.29s.

Tinemaha iZ = +12m.44s.

Dec. 19d. Readings also at 0h. (near New Plymouth), 3h. (Andijan and near Santiago), 4h. (near La Paz), 8h. (San Juan and Santiago), 10h. (Adelaide, Melbourne, Riverview, Perth, Batavia, and Medan), 11h. (Helwan and Theodosia), 12h. (Santiago), 15h. (near Batavia and Malabar), 17h. (Sebastopol, Simferopol, Theodosia, Yalta, and near Branner), 21h. (East Machias), 22h. (near Santiago).

Dec. 20d. 2h. 43m. 27s. Epicentre 13°·2N. 88°·7W. N.3.

$$A = +.0221, B = -.9733, C = +.2284; \quad \delta = -3;$$

$$D = -1.000, E = -.023; \quad G = +.005, H = -.228, K = -.974.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N. 8.6	297	2 5	+ 3	—	—	—	—
Balboa Heights	9.9	114	i 2 23	+ 4	e 4 45	S*	—	—
Puebla	N. 10.9	304	2 34	+ 1	—	—	—	—
Tacubaya	N. 11.8	303	2 48	+ 2	—	—	—	—
Guadalajara	N. 15.9	300	3 50?	+10	—	—	—	—
Little Rock	21.8	352	i 4 46	- 3	8 35	- 7	e 10.4	—
Columbia	21.9	17	e 4 48	- 2	e 8 46	+ 2	e 11.1	—
San Juan	22.3	74	4 57	+ 3	8 55	+ 3	e 12.2	—
St. Louis	25.5	357	e 5 22	- 3	i 9 45	- 5	e 11.9	13.5
Florissant	25.6	357	e 5 23	- 2	e 9 47	- 4	e 12.8	14.8
Georgetown	27.7	21	e 5 46	+ 2	e 10 28	+ 1	—	—
Tucson	27.9	317	e 5 48	+ 2	e 10 35	+ 5	e 14.6	—
Huancayo	28.5	151	5 49	- 3	10 43	+ 3	12.8	—
Chicago	28.6	0	—	—	e 10 37	- 5	e 13.0	—
Pennsylvania	29.2	17	—	—	e 11 53	+62	—	18.0
Philadelphia	29.3	22	e 6 0	+ 1	e 10 54	+ 1	e 14.6	—
Ann Arbor	29.4	8	—	—	9 39	-76	14.7	17.8
Madison	29.9	359	—	—	e 10 33?	-30	—	—
Denver	E. 30.1	334	e 5 30	-36	e 10 41	-25	—	—
Toronto	31.5	13	—	—	e 11 27	- 1	e 14.5	—
Ithaca	31.9	17	—	—	e 13 29	SSS	e 16.0	—
Oak Ridge	32.8	24	6 27	- 3	e 11 57	+ 9	e 17.0	—
Weston	32.8	24	1 6 38	+ 8	11 48	0	—	—
Riverside	33.3	313	1 6 30	- 4	—	—	—	—
Mount Wilson	Z. 33.9	313	1 6 37	- 2	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pasadena	33.9	313	i 6 37	- 2	e 13 22	+78	e 14.5	—
Ottawa	34.0	16	—	—	e 12 3	- 3	e 14.5	—
Vermont	34.0	20	6 45	+ 5	e 12 4	- 2	16.5	—
Santa Barbara	35.2	312	e 6 51	0	—	—	—	—
Tinemaha	35.6	317	i 6 56	+ 2	—	—	—	—
La Paz	36.0	144	7 4	+ 6	e 12 46	+10	18.6	23.0
Lick	36.2	315	i 7 19	+19	—	—	—	—
Bozeman	37.6	334	—	—	e 12 57	- 3	e 21.7	—
Butte	38.6	333	—	—	e 13 14	- 1	e 17.6	—
Ukiah	40.0	317	—	—	e 13 33	- 3	e 19.5	—
Victoria	45.4	328	—	—	e 14 50	- 6	e 21.5	—
La Plata	56.3	149	—	—	17 21	- 6	33.1	—
Rio de Janeiro	57.2	128	—	—	e 17 33	- 6	e 27.0	—
Toledo	77.5	52	e 11 52	- 3	e 21 40	- 8	—	43.8
Granada	78.2	54	e 12 27	+29	—	—	—	—
Stuttgart	85.2	41	—	—	e 23 3	- 7	e 39.5	51.5
Cheb	86.8	39	—	—	e 22 33?	[-39]	e 45.5	48.0
Pulkovo	92.3	26	e 20 19	PPPP	e 23 0	[-46]	39.5	54.3
Moscow	97.8	27	e 20 29	PPPP	27 25	?	47.0	56.1
Sverdlovsk	106.2	17	e 18 41	PP	e 28 9	PS	43.5	59.9
Ksara	109.4	47	e 19 11	PP	e 28 49	PS	52.0	—
Tiflis	110.4	35	e 19 50	PP	—	—	e 51.5	69.0
Tashkent	121.8	19	e 9 42	?	e 22 7	PP	e 54.5	67.5
Chiufeng	122.0	338	i 39 46	P'P'	—	—	e 56.5	68.4
Riverview	122.2	239	—	—	e 32 57	?	e 35.2	36.6
Nanking	127.6	331	e 30 57	PS	i 38 9	SS	63.8	—

Additional readings:—

Little Rock iPPPEN = +5m.14s., iPcPEN = +8m.50s., iSSSEN = +9m.5s., eEN = +9m.20s.

Columbia ePP = +5m.12s., S = +8m.53s.

San Juan ePP = +5m.16s., ePPP = +5m.30s., eS = +8m.42s., SS = +9m.55s., e = +10m.38s. and +11m.2s.

St. Louis iPEN = +5m.24s., iPPEN = +5m.53s., iPPPEN = +6m.6s., iSSSEN = +10m.24s., iSSSEN = +10m.33s.

Florissant iPNZ = +5m.25s., i = +5m.37s., ePP = +5m.47s., iPPNEZ = +5m.49s., eSZ = +9m.53s., iS = +9m.56s., i = +10m.18s.

Tucson i = +10m.52s.

Huancayo e = +6m.0s., PP = +6m.33s., e = +6m.40s., ePPP = +7m.16s., e = +8m.17s., S = +10m.51s., +11m.13s., eSS = +12m.10s.

Chicago e = +10m.2s.

Philadelphia i = +11m.43s., +14m.24s.

Ann Arbor e = +11m.51s., eE = +13m.3s., eN = +13m.33s.

Denver iE = +6m.54s., eE = +7m.26s. and +13m.31s.

Oak Ridge iN = +6m.29s., e = +6m.40s., iN = +6m.50s., iE = +6m.55s., iZ = +7m.9s., eE = +14m.11s. and +15m.5s.

Vermont eSS = +14m.2s.

Tinemaha i = +8m.17s.

La Paz iPPZ = +8m.27s., iSEZ = +12m.50s.

Ukiah e = +16m.57s. = SSSS + 3s.

Victoria e = +18m.19s.

Rio de Janeiro eN = +17m.3s.

Toledo PSN = +22m.10s., SSSE = +29m.34s., PKP,PKSE = +42m.51s., SKKSEN = +43m.10s.

Pulkovo e = +21m.34s., +26m.0s., and +28m.7s.

Tiflis ePSE = +28m.29s., eSSN = +34m.36s., eSSSE = +39m.57s.

Tashkent e = +31m.48s., +41m.51s., and +49m.33s.

Long waves were also recorded at Baku, Wellington, Christchurch, Scoresby Sund, Honolulu, Hong Kong, Cape Town, Sitka, Berkeley, Seattle, Kodai-kanal, and other European stations.

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Dec. 20d. 13h. 23m. 23s. Epicentre 13°·2N. 88°·7W. (as at 20d. 2h.). X.

A = +·0221, B = -·9733, C = +·2284; $\delta = -3$.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Little Rock	21·8	352	e 4 44	- 5	e 8 59	+17	—	—
Columbia	21·9	17	—	—	e 8 43	- 1	—	—
San Juan	22·3	74	—	—	e 8 49	- 3	—	—
St. Louis	25·5	357	e 5 45	+20	e 10 7	+17	e 16·7	—
Tucson	27·9	317	e 5 49	+ 3	e 10 36	+ 6	e 14·6	—
Huancayo	28·5	151	e 9 11	?	e 10 48	+ 8	e 16·3	—
Riverside z.	33·3	313	i 6 37	+ 3	—	—	—	—
Mount Wilson z.	33·9	313	e 6 36	- 3	—	—	—	—
Pasadena	33·9	313	e 6 39	0	—	—	e 16·1	—
Tinemaha z.	35·6	317	e 6 53	- 1	—	—	—	—
Rio de Janeiro	57·2	128	—	—	22 37?	SS	—	—

Additional readings :—

Little Rock eN = +4m.53s., iEN = +4m.58s.

St. Louis eN = +9m.53s. and +10m.24s.

Huancayo e = +11m.35s., eSS = +12m.14s., e = +13m.7s.

Long waves were also recorded at Balboa Heights, La Paz, and other American stations.

Dec. 20d. 18h. 29m. 33s. Epicentre 5°·7S. 103°·8E. (as on 1925 July 17d.). R.2.

A = -·2374, B = +·9663, C = -·0993; $\delta = -5$;
D = +·971, E = +·239; G = +·024, H = -·096, K = -·995.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Soengei Langka	1·4	78	i 0 41	+21	i 1 4	+28	—	—
Batavia	3·1	101	i 0 42	- 2	i 1 16	- 4	—	—
Malabar	4·1	112	i 0 56	- 2	i 1 37	- 8	—	—
Medan	10·6	331	e 2 44	+15	i 5 18	S*	—	—
Manila	26·5	40	5 36	+ 2	10 33	+26	—	—
Phu-Lien	26·6	6	e 5 37	+ 2	e 10 50	+41	—	—
Colombo	27·0	297	5 38	0	10 24	+ 9	14·4	16·0
Perth	28·6	158	5 2	-51	e 9 17	-85	—	16·4
Hong Kong	29·8	20	6 0	- 3	11 29	+28	15·7	19·0
Kodaikanal E.	30·7	301	i 6 17	+ 6	i 11 24	+ 8	15·2	17·9
Calcutta N.	32·0	333	6 31	+ 8	11 41	+ 6	e 15·2	—
Bombay	39·2	311	7 25	0	13 30	+ 6	19·4	—
Nanking	40·4	20	e 7 36	+ 1	13 46	+ 4	18·4	25·6
Zi-ka-wei z.	40·5	22	e 7 37	+ 1	—	—	23·4	25·1
Agra E.	41·2	325	7 41	- 1	13 56	+ 2	—	—
Adelaide	43·4	136	—	—	i 14 8	-19	e 21·9	28·0
Chiufeng	47·1	12	8 25 ^a	- 4	15 15	- 5	—	32·1
Melbourne	49·3	136	8 52	+ 6	i 15 42	- 9	25·0	32·1
Riverview	52·1	130	i 16 20	S	(i 16 20)	-10	e 28·8	32·7
Sydney	52·1	130	—	—	e 15 49	-41	32·4	33·7
Andijan	54·7	331	9 26	0	17 8	+ 3	—	—
Vladivostok	55·0	25	e 9 27	- 2	e 17 10	+ 1	29·4	37·4
Frunse	55·3	335	e 9 30	- 1	17 12	- 1	—	—
Tashkent	56·6	330	i 9 40	0	17 26	- 5	e 25·4	37·0
Tchinkent	57·2	331	9 45	0	17 39	0	—	—
Semipalatinsk	59·7	344	e 10 3	+ 1	—	—	—	—
Baku	67·5	318	e 11 0	+ 5	19 55	+ 4	33·8	39·3
Christchurch	70·8	134	i 20 14	S	(i 20 14)	-17	38·6	—
Erevan	71·1	317	e 11 12	- 5	—	—	—	—
Grozny	71·6	320	e 11 22	+ 2	e 21 11	+31	—	—
Sverdlovsk	71·6	336	i 11 32	+12	i 20 49	+ 9	32·4	46·4
Tiflis	71·6	318	i 11 18	- 2	20 38	- 2	e 38·4	48·4
Platigorsk	73·7	320	e 11 32	- 1	—	—	—	—
Ksara	75·2	307	i 11 41 ^a	0	i 21 27	+ 5	36·0	—
Sotchi	75·7	318	e 11 37	- 7	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Theodosia	79.1	318	e 12 2	- 1	—	—	—	—
Yalta	79.8	318	e 12 6	- 1	22 6	- 8	—	—
Sebastopol	80.2	317	e 12 10	+ 1	—	—	—	—
Simferopol	80.8	318	e 12 8	- 4	c 22 23	- 1	—	—
Toledo	107.3	310	—	—	26 16	{+29}	—	—
Tinemaha	z. 130.5	44	i 19 7	[- 1]	—	—	—	—
Pasadena	131.9	47	e 19 8	[- 2]	—	—	—	—
Mount Wilson	z. 132.0	47	i 19 10	[0]	—	—	—	—
Riverside	z. 132.6	47	i 19 11	[0]	—	—	—	—
St. Louis	144.7	18	i 19 31	[- 2]	—	—	—	—
Little Rock	N. 147.3	25	i 19 36	[- 2]	—	—	—	—
La Paz	156.4	200	21 4	[+75]	i 30 47	{-11}	50.3	85.2
San Juan	164.0	323	—	—	e 24 39	PP	—	—

Additional readings :—

Malabar i = +1m.59s.
 Medan iE = +5m.35s. and +6m.0s., iN = +6m.17s.
 Hong Kong ? = +6m.37s., PP? = +7m.14s., ? = +11m.0s., SS = +13m.39s.
 Kodaikanal iSSE = +13m.6s.
 Bombay PPPEN = +9m.2s., SSSSEN = +16m.31s.
 Agra iE = +14m.19s., eSSE = +17m.11s., SSSE = +18m.14s.
 Adelaide eS? = +17m.7s.
 Chiufeng PPEN = +10m.18s.
 Melbourne i = +18m.29s. and +19m.27s.
 Riverview eN = +18m.47s.
 Christchurch eSEN = +28m.15s., LqE = +35.2m.
 Tiflis i = +11m.20s., iPSE = +21m.3s., SKSE = +21m.37s., SSE = +25m.43s., SSSN = +28m.49s.
 Toledo PSN = +28m.39s., PPSE = +29m.51s., PKKSE = +33m.48s., SSSN = +38m.36s.
 Tinemaha iZ = +22m.30s. and +22m.45s.
 Pasadena ePPZ = +21m.28s., eSKPZ = +22m.33s., i = +22m.37s.
 Mount Wilson ePPZ = +21m.19s., iZ = +22m.32s.
 Riverside iZ = +22m.55s.
 St. Louis iEN = +20m.0s., eN = +23m.54s.
 Little Rock iEN = +19m.53s.
 San Juan e = +29m.51s.
 Long waves were also recorded at Rio de Janeiro, Cape Town, Pulkovo, and Bidston.

Dec. 20d. Readings also at 0h. and 2h. (Santiago), 3h. (Santiago (3), Mount Wilson, Pasadena, Riverside, and Tinemaha), 6h. (Medan and near Strasbourg), 7h. (Guadalajara, Oaxaca, Puebla, Tacubaya, Tucson, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 8h. (East Machias and Mizusawa), 9h. (San Juan), 10h. (near Medan), 13h. (Mount Wilson and Pasadena), 14h. (Balboa Heights), 17h. (near Tananarive), 19h. (Huancayo, La Paz, Mount Wilson, Pasadena, Riverside, and Tinemaha), 21h. (Tananarive).

Dec. 21d. 19h. 3m. 18s. Epicentre 52°·9N. 131°·6W. N.2.

A = -·4005, B = -·4511, C = +·7976; δ = +6;
 D = -·748, E = +·644; G = -·530, H = -·596, K = -·603.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sitka	4.6	335	1 4	- 2	—	—	—	—
Victoria	6.9	127	1 42	+ 4	3 9	+13	3.6	—
Seattle	7.9	128	e 2 45	P _r	e 3 53	S*	e 4.0	—
Ferndale	E. 13.3	155	e 3 17	+11	e 5 58	+24	—	—
	N. 13.3	155	e 3 22	+16	e 5 12	-22	—	—
Butte	14.0	111	—	—	6 3	+12	7.5	—
College	14.5	332	e 3 54	+32	e 6 55	+52	8.0	—
Ukiah	14.9	154	e 3 24	- 3	e 6 7	- 6	e 6.6	—
Saskatoon	15.1	84	e 3 32	+ 2	—	—	e 7.7	—
Bozeman	15.2	110	e 3 31	0	e 6 20	0	8.0	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Berkeley	16.4	153	e 3 49	+ 3	e 6 56	+ 8	—	—
San Francisco	16.4	154	e 3 54	+ 8	—	—	—	—
Branner	16.8	153	e 3 57	+ 5	—	—	—	—
Lick	17.0	151	e 3 59	+ 5	e 7 1	- 1	—	—
Fresno	N. 18.1	147	e 4 11	+ 3	—	—	—	—
Tinemaha	18.3	143	e 4 11	+ 1	e 7 48	+17	—	—
Haiwee	19.3	143	i 4 23	+ 1	e 8 13	+21	—	—
Santa Barbara	20.3	148	i 4 34	+ 1	e 8 34	+22	—	—
Pasadena	21.0	146	i 4 39 ^a	- 1	i 8 40	+14	—	—
Mount Wilson	21.0	146	i 4 40 ^a	0	—	—	—	—
Riverside	21.4	146	i 4 43 ^a	- 1	—	—	—	—
Denver	22.4	115	e 4 50	- 5	e 9 4	+11	e 11.9	12.8
La Jolla	22.5	145	i 4 57	+ 1	e 9 9	+14	—	—
Tucson	25.5	134	e 5 25	0	e 10 4	+14	e 13.4	—
Des Moines	27.7	98	—	—	e 10 42	+15	e 14.3	—
Madison	29.4	91	—	—	e 11 18	+23	e 15.9	—
Chicago	31.2	93	—	—	e 11 29	+ 6	16.3	—
Florissant	31.4	99	e 6 16	- 1	e 11 31	+ 5	—	37.3
St. Louis	31.6	99	e 6 17	- 2	e 11 30	+ 1	—	18.2
Little Rock	E. 33.0	107	e 6 33	+ 1	e 12 2	+11	—	19.2
Ann Arbor	33.3	88	e 7 48	PPP	e 12 6	+11	i 17.3	20.5
Toronto	35.1	83	e 7 0	+10	e 12 39	+16	17.7	—
Buffalo	35.8	83	i 7 0	+ 4	e 12 48	+15	e 17.9	—
Ottawa	36.3	78	e 7 0	0	12 52	+11	18.7	—
Honolulu	37.4	222	e 7 12	+ 2	e 12 57	0	18.3	—
Pennsylvania	37.7	86	—	—	e 15 35	SS	19.9	22.1
Seven Falls	38.3	73	7 24	+ 6	13 24	+13	—	—
Vermont	38.3	78	—	—	e 13 24	+13	i 19.5	—
Philadelphia	39.8	85	i 9 2	PP	i 13 45	+12	i 20.0	—
Columbia	40.2	96	e 8 57	PP	e 13 44	+ 5	e 20.3	—
Weston	40.7	79	e 7 37	- 1	—	—	—	21.6
East Machias	41.6	74	e 9 11	PP	e 13 58	- 2	i 22.0	—
Iviglut	42.9	45	9 48	PPP	14 37	+18	21.7	—
Scoresby Sund	46.8	26	—	—	19 6	SSS	22.7	—
Vladivostok	60.3	303	e 9 52	-15	18 13	- 7	—	39.1
San Juan	60.7	97	—	—	e 18 28	+ 3	e 30.0	—
Rathfarnham Castle	64.5	33	—	—	e 26 58	SSSS	30.7	40.7
Kew	67.9	31	—	—	e 28 30	SSSS	31.7	41.3
Sverdlovsk	69.8	353	—	—	e 20 36	+17	26.7	42.3
Chiufeng	70.2	312	11 5 ^a	- 7	20 20	- 4	e 32.8	46.0
Strasbourg	72.8	27	i 11 29 ^k	+ 1	—	—	e 33.7	—
Stuttgart	73.0	26	e 11 36	+ 7	e 29 54	?	e 39.7	—
Prague	73.1	22	e 19 12	?	e 29 30	SSSS	e 41.7	68.7
Zurich	74.2	27	e 11 38	+ 2	—	—	—	—
Nanking	75.4	305	e 11 39	- 4	i 21 22	- 3	—	46.2
Toledo	76.7	39	e 11 48	- 2	e 21 19	-20	—	—
Granada	79.3	40	e 11 41	-23	—	—	41.7	—
Huancayo	80.7	124	12 7	- 5	e 22 19	- 4	—	—
Grozny	83.8	3	e 12 24	- 3	—	—	—	—
Tashkent	84.1	345	—	—	e 22 52	- 7	—	57.0
Tiflis	85.3	3	e 12 35	0	e 23 10	- 1	e 39.2	—
Baku	86.7	0	12 42	0	23 19	- 5	40.9	56.0
Erevan	86.9	4	e 12 33	-10	—	—	—	—
La Paz	N. 88.2	120	12 48	- 1	i 23 36	- 3	47.1	52.4
Manila	88.5	293	16 0	PP	23 38	- 4	—	—
Ksara	92.6	10	i 13 10 ^k	+ 1	—	—	44.7	—
Agra	E. 95.9	333	e 26 30	PS	—	—	—	—
Calcutta	N. 97.0	323	e 17 20	PP	i 24 11	[0]	—	60.3
Bombay	105.2	336	e 15 42 [?]	?	—	—	—	—
Rio de Janeiro	106.1	105	e 18 42 [?]	[+37]	—	—	—	—
Kodaikanal	E. 112.2	329	e 17 42 [?]	[-42]	—	—	—	—

Continued on next page.

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NOTES TO DEC. 21d. 19h. 3m. 18s.

Additional readings:—

Sitka i = +1m.21s.
 Seattle e = +3m.34s.
 Ferndale eE = +3m.56s., +4m.54s., and +6m.52s.
 College e = +7m.5s.
 Ukiah ePPP = +3m.53s., e = +4m.15s., eSS = +6m.18s.
 Bozeman eSS = +6m.32s.
 Berkeley eZ = +3m.55s., eE = +4m.53s. and +6m.49s., eSEN = +6m.59s.
 Lick eSE = +7m.9s.
 Pasadena iP_cPZ = +8m.6s.
 Mount Wilson iP_cPZ = +8m.6s.
 Riverside iP_cPZ = +8m.11s.
 Denver eN = +4m.54s., iEN = +5m.5s., ePPN = +5m.11s., ePPPE = +5m.35s.,
 eN = +5m.52s., eE = +6m.32s. and +9m.11s., iEN = +9m.22s., eEN =
 +9m.34s., eSSN = +9m.48s.
 Tucson eP = +5m.32s., e = +10m.16s.
 Florissant ePN = +6m.17s., iPPPZ = +7m.25s., eZ = +11m.34s., iN = +11m.38s.
 St. Louis iPPEN = +7m.9s., iPPPEN = +7m.22s., iSSEN = +13m.8s.
 Ann Arbor eSE = +12m.18s., eSSN = +13m.54s.
 Buffalo ePP = +8m.17s., e = +9m.10s., eSSS = +15m.22s.
 Honolulu eS = +13m.24s., e = +15m.37s. and +16m.9s., i = +18m.47s.
 Vermont iS = +13m.31s., eSS = +15m.42s.
 Philadelphia e = +16m.40s.
 Columbia ePP = +9m.3s., eSS = +16m.25s.
 East Machias eS = +14m.9s., e = +17m.22s. and +21m.9s.
 Sverdlovsk PS = +21m.2s., SS = +25m.40s.
 Chiufeng SN = +20m.23s.
 Toledo PSE = +21m.54s.
 Huancayo eS = +22m.13s. and +22m.29s., ePS = +22m.53s., e = +25m.2s.
 Tashkent e = +22m.26s., i = +22m.55s., e = +25m.8s., SS = +28m.48s., e =
 +36m.36s.
 Ksara iPP = +16m.57s., PS = +25m.39s., ePPS = +26m.17s.
 Long waves were also recorded at Halifax, Oak Ridge, Cape Town, Paris, San
 Fernando, Stonyhurst, Cheb, Edinburgh, Hong Kong, Hyderabad, Sydney,
 Ithaca, Uccle, De Bilt, La Plata, Pulkovo, and Copenhagen.

Dec. 21d. 19h. 27m. 59s. Epicentre 52°·9N. 131°·6W. (as at 19h.3m.18s.). R.3.

A = -·4005, B = -·4511, C = +·7976; δ = +6.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	6·9	127	—	—	i 3 7	+11	3·5	4·3
Seattle	7·9	128	—	—	e 3 47	S*	i 4·2	—
Ferndale	13·3	155	3 33	+27	e 6 11	+37	—	—
Ukiah	14·9	154	—	—	e 6 25	+12	6·7	—
Saskatoon	15·1	84	e 4 19	+49	e 7 35	+78	8·2	9·4
Bozeman	15·2	110	—	—	e 6 36	+16	e 8·0	—
Berkeley	16·4	153	e 3 44	- 2	e 6 55	+ 7	—	—
San Francisco	16·4	154	e 3 43	- 3	—	—	—	—
Branner	16·8	153	e 3 54	+ 2	e 7 21	+24	—	—
Lick	17·0	151	e 3 51	- 3	e 7 19	+17	—	—
Fresno	N. 18·1	147	e 4 8	0	—	—	—	—
Tinemaha	18·3	143	e 4 11	+ 1	—	—	—	—
Haiwee	19·3	143	i 4 21	- 1	e 8 12	+20	—	—
Santa Barbara	20·3	148	e 4 31	- 2	e 8 31	+19	—	—
Pasadena	21·0	146	i 4 38	- 2	i 8 43	+17	—	—
Mount Wilson	21·0	146	i 4 38	- 2	e 8 35	+ 9	—	—
Riverside	21·4	146	i 4 43	- 1	e 8 41	+ 7	—	—
Denver	22·4	115	e 4 57	+ 2	e 9 1	+ 8	e 10·9	12·0
La Jolla	22·5	145	e 4 55	- 1	e 9 5	+10	—	—
Tucson	25·5	134	e 5 32	+ 7	e 10 9	+19	e 13·6	—
Des Moines	27·7	98	—	—	e 10 35	+ 8	e 13·9	—
Florissant	31·4	99	e 6 20	+ 3	i 11 8	-18	—	16·7
St. Louis	31·6	99	i 5 37	-42	e 10 40	-49	—	—
Little Rock	E. 33·0	107	e 6 38	+ 6	—	—	—	—
Honolulu	37·4	222	—	—	e 15 49	SSSS	18·8	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Columbia	40.2	96	—	—	e 13 46	+ 7	21.1	—
Oak Ridge	40.4	79	c 4 4	?	—	—	i 21.2	—
Weston	40.7	79	e 8 39	+61	—	—	—	11.7
Toledo	76.7	39	i 11 51	+ 1	21 38	- 1	—	—
Huancayo	80.7	124	e 12 1	-11	i 22 26	+ 3	c 43.6	—
Tiflis	85.3	3	e 12 35	0	e 23 14	+ 3	c 39.5	—
Hong Kong	85.8	301	14 9	?	(23 10)	- 6	—	32.4
Ksara	92.6	10	13 13	+ 4	—	—	—	80.5
Wellington	104.9	219	—	—	e 24 1?	[-48]	—	—
Christchurch	107.7	219	e 22 10	PPPP	26 14	{+23}	28.6	—

Additional readings :—

Seattle eS = +3m.56s.

Ferndale eE = +3m.36s. and +4m.43s., eN = +7m.36s.

Berkeley eZ = +3m.48s., eEN = +3m.50s., eE = +7m.9s., eZ = +7m.13s.

Pasadena iP_cPZ = +8m.2s

Riverside iP_cPZ = +8m.2s.

Denver iN = +5m.19s., ePP = +5m.28s., ePPPN = +5m.43s., eE = +9m.12s.,

eN = +9m.25s., iE = +9m.30s., eSSN = +9m.57s.

Des Moines e = +11m.1s.

St. Louis eN = +13m.14s.

Little Rock eE = +7m.4s.

Honolulu SSS = +16m.34s. and +16m.46s.

Toledo PSE = +21m.38s., SSN = +25m.52s.

Huancayo S = +21m.58s., eS = +22m.11s.

Hong Kong S? = +19m.23s.; true S is given as SS.

Ksara PS = +25m.38s., PPS = +26m.18s.

Christchurch L_cE = +26m.33s.

Long waves were also recorded at Copenhagen, De Bilt, Scoresby Sund, Ivigtut, and other American and Canadian stations.

Dec. 21d. Readings also at 3h. (Hong Kong, Nanking, and near Manila), 6h. (Mount Wilson, Pasadena, and near Santiago), 8h. (Huancayo, La Paz (2), Mount Wilson, and Pasadena), 12h. (Huancayo, La Paz (2), Rio de Janeiro, Mount Wilson, Pasadena, and Ksara), 13h. (Montezuma), 14h. (Montezuma, La Paz, Mount Wilson, and Pasadena), 17h. (Adelaide, Riverview, Perth, La Jolla, Mount Wilson, Pasadena, Riverside, Santa Barbara, and Tinemaha), 18h. (Almeria and near Nagoya), 19h. (Haiwee (2), Mount Wilson (2), Pasadena (2), Riverside (2), Santa Barbara, and Florissant (2)), 20h. (Mount Wilson (2), Pasadena (2), Riverside, Hong Kong, Mizusawa, Christchurch, Wellington, and Tiflis), 23h. (Amboina).

Dec. 22d. 8h. 30m. 45s. Epicentre 5°.5S. 150°.0E. (as on 1935 Nov. 11d.). X.

A = - .8621, B = + .4978, C = - .0952; δ = +8;

D = + .500, E = + .866; G = + .083, H = - .048, K = - .995.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Riverview	28.4	178	e 8 51	P _c P	e 11 48	SS	e 15.2	18.8
Sydney	28.4	178	—	—	e 10 3	-35	15.0	16.8
Adelaide	31.3	198	e 6 27	+10	e 11 17	- 7	e 16.9	20.0
Melbourne	32.6	187	—	—	e 11 15?	-30	16.2	22.0
Perth	41.4	226	7 35	- 9	13 40	-17	20.2	28.2
Batavia	42.9	269	7 44	-12	17 47	SSS	—	—
Christchurch	43.0	155	7 55	- 2	14 57	+36	22.6	—
Nanking	47.9	323	e 8 46	+11	e 15 27	- 4	e 20.9	—
Chiufeng	55.2	328	e 9 31	+ 1	17 12	0	—	28.2
Calcutta	N. 66.4	297	e 15 59	PPPP	i 19 27	-10	—	—
Pasadena	z. 94.6	56	i 13 55	+36	—	—	—	—
Mount Wilson	z. 94.7	56	i 13 56	+37	—	—	—	—
Tinemaha	z. 94.7	53	i 13 57	+38	—	—	—	—
Ksara	113.0	305	e 18 0	[-27]	e 27 38	{+70}	—	77.8

Additional readings :—

Adelaide e = +7m.25s., +9m.58s., and +13m.48s.

Melbourne i = +14m.27s.

Perth PP = +9m.15s., SS = +15m.55s.

Batavia SE = +18m.1s.

Christchurch L_cE = +18m.56s.

Chiufeng ePZ = +9m.50s.

Ksara e = +19m.51s.

Long waves were also recorded at Tucson.

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Dec. 22d. Readings also at 3h. (Alicante), 4h. (Andijan, near Samarkand, and near Tucson), 6h. (Mount Wilson, Pasadena, and Tinemaha), 7h. (Mount Wilson (4) and Pasadena (4)), 8h. (Mount Wilson, Tinemaha, Agra, College, Bombay, Calcutta, and near Hyderabad), 9h. (Mount Wilson, Pasadena, Tinemaha, and Wellington), 10h. (Jersey), 13h. (Jena (2), Cheb (2), and Göttingen (2)), 14h. (Cheb, Jena, and Göttingen), 15h. (near Branner and Medan), 16h. (Andijan, Samarkand, near Tiflis, and near Malabar), 20h. (Perth), 21h. (near Santiago), 22h. (Almeria (3)), 23h. (Almeria, Toledo, and near Granada).

Dec. 23d. 22h. 55m. 44s. Epicentre $37^{\circ}1'N$. $141^{\circ}3'E$. R.2.

(as on 1934 July 26d. and near the position $37^{\circ}0'N$. $141^{\circ}13'E$. given by Tokyo).

A = -0.6225, B = +0.4987, C = +0.6032; $\delta = +6$;
D = +0.625, E = +0.780; G = -0.471, H = +0.377, K = -0.798.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Onahama	0.3	242	0 4	0	0 10	+ 2	—	—
Hukusima	0.9	314	0 16 _k	+ 3	0 29	+ 6	—	—
Mito	0.9	223	0 12	- 1	0 25	+ 2	—	—
Kakioka	1.2	226	0 15 _a	- 2	0 26	- 5	—	—
Sendai	1.2	344	0 20 _k	+ 3	0 36	S*	—	—
Utunomiya	1.2	245	0 18	+ 1	0 32	+ 1	—	—
Isinomaki	1.3	0	0 20	+ 2	0 44	+11	—	—
Tukubasan	1.3	227	0 16	- 2	0 27	- 6	—	—
Tyosi	1.4	194	0 18	- 2	0 34	- 2	—	—
Kumagaya	1.8	237	0 24	- 2	0 43	- 3	—	—
Komaba	1.9	222	0 25 _a	- 3	0 46	- 3	—	—
Maebasi	1.9	249	0 26 _a	- 2	0 46	- 3	—	—
Tokyo	1.9	221	0 25	- 3	0 45	- 4	—	0.8
Tokyo I.U.	1.9	221	0 24	- 4	0 44	- 5	—	—
Mitaka	2.0	225	0 24	- 5	0 45	- 6	—	—
Mizusawa	2.0	356	0 32	+ 3	i 0 58	S*	—	—
Katutura	2.1	202	0 25	- 5	0 49	- 5	—	—
Yokohama	2.1	219	0 27 _a	- 3	0 50	- 4	—	—
Kamakura	2.2	218	0 30	- 1	0 56	- 1	—	—
Oiwake	2.3	251	0 34	+ 1	1 1	+ 2	—	—
Takada	2.4	270	0 43	P _s	1 10	S*	—	—
Mera	2.5	209	0 35	- 1	1 9	+ 5	—	—
Nagano	2.5	260	0 37	+ 1	1 7	+ 3	—	—
Hunatu	2.6	233	0 35	- 2	1 2	- 5	—	—
Kohu	2.6	236	0 35	- 2	1 3	- 4	—	—
Misima	2.7	224	0 42	P*	1 9	0	—	—
Ito	2.8	220	0 41 _a	+ 1	1 11	- 1	—	—
Matumoto	2.8	252	0 39	- 1	1 11	- 1	—	—
Numadu	2.8	225	0 40	0	1 14	+ 2	—	—
Susaki	3.1	218	0 44	0	1 17	- 3	—	—
Iida	3.2	240	0 46	0	1 17	- 5	—	—
Toyama	3.3	263	0 48	+ 1	1 30	+ 5	—	—
Hatinohe	3.4	2	0 50 _a	+ 1	1 33	+ 6	—	—
Husiki	3.4	266	1 1	P _s	1 40	S*	—	—
Omaesaki	3.5	226	0 53	+ 3	1 42	S*	—	—
Wazima	3.5	280	0 52	+ 2	1 40	S*	—	—
Hamamatu	3.7	233	0 56	+ 3	1 18	-17	—	—
Aomori	3.8	353	0 57	+ 3	1 42	+ 5	—	—
Kanazawa	3.8	264	1 31	S	(1 31)	- 6	—	—
Gihu	4.0	246	0 55	- 2	1 47	+ 5	—	—
Nagoya	4.0	242	0 59	+ 2	1 48	+ 6	—	2.2
Hatidyozima	4.2	198	0 57	- 3	1 39	- 9	—	—
Hikone	4.5	248	1 6	+ 2	1 55	0	—	—
Kameyama	4.5	242	1 5	+ 1	2 1	+ 6	—	—
Tu	4.5	243	1 14	P*	2 7	S*	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hakodate	4.7	354	1 25	P _g	2 22	S _g	—	—
Kyoto	4.9	247	1 11	+ 1	—	—	—	—
Osaka B	5.1	244	1 28	P*	2 26	+16	—	—
Urakawa	5.2	12	1 26	P*	2 21	+ 8	—	—
Kobe	5.5	248	e 1 35	P*	2 28	+ 8	—	2.9
Wakayama	5.7	243	1 26	+ 5	2 44	S*	—	—
Siomisaki	5.8	233	2 18	S	(2 18)	-10	—	—
Sumoto	5.8	244	e 1 33	P*	2 35	+ 7	—	2.9
Sapporo	6.0	359	1 26	+ 1	2 47	+14	—	—
Asahigawa	6.7	6	1 44	+ 9	3 5	+14	—	—
Nemuro	7.0	26	1 32	- 7	—	—	—	—
Vladivostok	9.3	313	e 2 14	+ 3	e 4 6	+10	4.9	—

Additional readings :—

Mizusawa SN = +1m.1s.

Kanazawa S = +1m.55s.

Kobe eN = +1m.51s., eEN = +2m.6s.

Sumoto ePEN = +1m.36s., eSZ = +2m.41s.

Dec. 23d. Readings also at 0h. (Almeria (2)), 1h. (Balboa Heights), 4h. (Calcutta), 6h. (Mizusawa, Adelaide, Melbourne, Riverview, Sydney, Perth, Christchurch, and Wellington), 7h. (near Santiago), 8h. (Almeria and Mizusawa), 11h. (near Santiago and near Tiflis), 12h. (Mount Wilson, Pasadena, Santa Barbara, Tinemaha, Chiufeng, Nanking, Mizusawa, Sverdlovsk, Tashkent, and Ksara), 13h. (Baku and Nagoya), 14h. (Mount Wilson, Pasadena, Tinemaha, Chiufeng, Nanking, Vladivostok, Nanking (2), Mizusawa (2), Nagoya (2), Baku, Tashkent, Tiflis, Sverdlovsk, and Ksara), 16h. (Tacubaya), 17h. (La Paz, Lick, and near Fresno), 19h. (near Santiago), 21h. (Rotorua, Medan, Soengei-Langka, near Batavia, and Malabar), 22h. (Tiflis).

Dec. 24d. 13h. 49m. 24s. Epicentre 34°·6N. 135°·3E. (as on 1932 May 5d.). X.

$$A = -0.5851, B = +0.5790, C = +0.5678; \quad \delta = -2.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Kobe	0.1	311	i 0 1	0	0 3	0	0.1
Sumoto	0.4	234	i 0 3 _a	- 3	i 0 6	- 4	0.2
Toyooka	1.0	337	0 15	+ 1	0 28	+ 2	0.5
Nagoya	1.5	67	0 29	+ 8	0 50	+11	—
Hukuoka B	4.2	257	1 10	P*	2 4	S*	—

Toyooka gives also iZ = +21s.

Dec. 24d. Readings also at 1h. and 2h. (Cheb), 3h. (Rotorua), 4h. (Erevan, Grozny, Sochi, near Platigorsk, and Tiflis), 6h. (Pasadena, Mount Wilson, Tinemaha, Huancayo, La Paz, and near Santiago), 8h. (Batavia and Malabar), 9h. (Huancayo, La Paz, and near Sochi), 10h. (Sverdlovsk, Ksara, Vladivostok, Chiufeng, Hong Kong, Manila, Nanking, and Perth), 11h. (Balboa Heights), 13h. (Manila, Vladivostok, Sverdlovsk, Nanking, Chiufeng, Ksara, Perth, near Kobe, and Sumoto), 14h. (Ksara, Platigorsk, Chiufeng, near Kobe, Sumoto, near Grozny, Erevan, and Tiflis), 15h. and 18h. (near Kobe), 19h. (Calcutta, Tashkent, Tiflis, Sverdlovsk, Vladivostok, Chiufeng, Hong Kong, Nanking, and near Manila), 20h. (Baku, Sebastopol, Simferopol, Theodosia, and Yalta), 21h. (Kobe).

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Dec. 25d. 20h. 4m. 4s. Epicentre 17°·5N. 104°·9W. R.3.

(as on 1933 July 9d. and near position 17°·7N. 105°·0W. given by Little Rock).

$$A = -.2452, B = -.9216, C = +.3007; \quad \delta = -11;$$

$$D = -.966, E = +.257; \quad G = -.077, H = -.291, K = -.954.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	N.	1·6	19	0 24	+ 1	—	—	—	—
Guadalajara	N.	3·4	22	0 52	+ 3	—	—	—	—
Tacubaya	N.	5·7	70	1 32	P*	—	—	—	—
Oaxaca	N.	7·8	92	2 6	P*	—	—	—	—
Tucson		15·7	341	e 3 34	- 4	e 6 22	- 9	—	—
La Jolla		19·0	327	i 4 17	- 2	—	—	—	—
Riverside	Z.	19·9	328	i 4 25	- 4	—	—	—	—
Mount Wilson	Z.	20·4	327	i 4 32	- 2	—	—	—	—
Pasadena		20·4	327	i 4 34	0	e 8 19	+ 5	i 9·9	—
Little Rock		20·6	31	e 4 41	+ 5	e 8 33	+15	e 11·3	—
Santa Barbara		21·5	325	i 4 44	- 1	—	—	—	—
Haiwee		22·0	331	i 4 49	- 2	—	—	—	—
Tinemaha		22·8	332	i 4 59	0	—	—	—	—
St. Louis		24·7	28	e 5 20	+ 3	e 9 42	+ 6	e 12·1	14·3
Florissant		24·8	28	e 5 21	+ 3	e 9 43	+ 6	—	12·9
Berkeley		25·4	327	—	—	e 9 52	+ 4	—	—
Ukiah		26·8	327	i 7 8	?	e 9 56?	-16	—	—
Columbia		26·9	48	—	—	e 10 18	+ 4	e 15·7	—
Chicago		28·4	28	e 5 53	+ 2	e 10 46	+ 8	e 14·2	—
Bozeman		28·7	351	—	—	e 10 8	-35	—	—
Madison		28·8	24	—	—	e 10 56?	+ 9	—	—
Butte		29·3	350	—	—	e 10 8	-45	—	—
Ann Arbor		30·6	32	e 8 26	?	e 16 8	ScS	e 16·9	—
Seattle		33·4	339	—	—	(e 13 56?)	SS	e 13·9	—
Toronto		33·8	34	—	—	e 12 2	- 1	e 16·9	—
Philadelphia		34·1	43	e 7 19	+38	e 12 13	+ 5	e 17·4	—
Victoria		34·3	338	—	—	e 12 3	- 8	e 15·9	—
San Juan		36·7	83	e 10 41	?	e 16 39	ScS	—	—
Ottawa		37·0	35	e 7 14?	+ 8	e 12 56	+ 5	e 19·4	—
Oak Ridge		37·8	42	—	—	i 17 17	ScS	e 60·9	—
Weston		37·9	42	e 9 18	PPPP	—	—	—	23·1
Seven Falls		40·7	36	e 9 24	PPP	e 13 51	+ 4	—	—
East Machias		41·5	41	—	—	e 12 44	-75	e 21·1	—
Huancayo		41·8	133	e 7 34	-13	e 14 19	+16	e 17·3	—
La Paz		49·6	130	9 15	+27	i 16 34	+39	e 23·9	27·2
Honolulu		49·8	284	—	—	e 19 26	SS	—	—
College		55·3	340	—	—	e 19 8	ScS	e 29·4	—
Scoresby Sund		71·2	21	—	—	20 38	+ 3	e 33·9	—
De Bilt		87·9	35	—	—	e 23 47	+11	e 41·9	52·4
Uccle		88·0	37	—	—	e 23 21	[+ 1]	e 41·9	—
Sverdlovsk		104·7	8	—	—	e 26 20	+12	e 46·9	57·8
Tiflis		114·5	25	e 28 40	PS	—	—	e 50·9	68·3
Ksara		116·5	37	e 19 53	PP	—	—	e 53·9	60·9
Tashkent		121·0	5	—	—	e 39 56?	SSS	e 61·4	74·0

Additional readings:—

Tucson eSSS = +7m.32s.

Little Rock eE = +8m.40s.

St. Louis iPN = +5m.21s., ePPPEN = +6m.6s., eSN = +9m.44s., eSSEN =

+10m.38s., eEN = +11m.56s.

Florissant iSN = +9m.47s.

Columbia eS = +10m.28s.

Chicago eS = +10m.54s.

Philadelphia eSS = +14m.42s.

Ottawa eN = +8m.8s.

Honolulu eSSS = +20m.56s.

Sverdlovsk e = +33m.39s.

Ksara ePS = +20m.40s., ePPS = +30m.51s.

Long waves were also recorded at Ivigtut, Baku, Pulkovo, Vladivostok, Christchurch, Wellington, and other European stations.

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Dec. 25d. Readings also at 0h. (near Tananarive), 2h. (Reykjavik), 4h. (near La Paz), 5h. (Huancayo (2), La Paz, and San Juan), 8h. (La Paz and Tucson), 9h. (Mizusawa), 10h. (Batavia, near Malabar, near Santiago (3), and San Javier (2)), 13h. (near Belgrade), 15h. (Kobe), 16h. (Fresno, Lick, San Francisco, near Berkeley, and Branner), 19h. (near Kobe (2), Toyooka, Nagoya, and Sumoto (2)), 20h. (Bozeman, Florissant, and Lick), 21h. (near Balboa Heights), 23h. (near Andijan).

Dec. 26d. 18h. Japanese shock for which the epicentre has not been determined.

Mizusawa eP = 34m.52s., iS = 35m.21s.

Nagoya eP = 35m.8s., eS = 35m.49s., M = 36m.8s.

Toyooka PZ = 35m.32s., ePE = 35m.49s., SN = 36m.47s., M = 37m.4s.

Kobe PZ = 35m.55s., PEN = 36m.4s., eN = 36m.8s., SZ = 36m.41s., SN = 36m.53s., eSE = 36m.55s., M = 37m.56s.

Sumoto ePE = 36m.14s., eSEN = 36m.55s., eZ = 37m.3s., M = 37m.10s.

Dec. 26d. 22h. 52m. 49s. Epicentre 30°·7S. 177°·6W. (as on 1936 Oct. 4d.). R.2.

A = -·8591, B = -·0360, C = -·5105; δ = - 4;

D = -·042, E = +·999; G = +·510, H = +·021, K = -·860.

A correction for depth of focus 0·025 has been applied.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
New Plymouth	-0.4	10.8	217	2 11 _p	-15	—	—	—	—
Wellington	-0.5	12.2	208	2 42	- 2	4 36	-19	i 5.6	—
Christchurch	-0.7	15.0	208	3 13 _a	- 6	5 38	-20	6.7	—
Apia	-0.8	17.7	18	i 3 51	- 2	e 7 11	+12	—	—
Riverview	-1.5	26.5	255	i 5 20 _a	0	e 9 42	+ 1	e 12.0	15.8
Melbourne	-1.8	31.5	245	7 1	+59	11 34	+35	13.9	16.8
Adelaide	-2.0	36.7	253	i 6 57	+11	i 12 30	+13	—	21.0
Honolulu	-2.9	55.4	23	i 9 16	+ 6	i 17 2	+27	e 24.3	—
Perth	-2.9	55.9	250	12 11 _p	PP	—	—	—	—
Batavia	-3.2	74.4	272	i 11 18 _a	0	i 20 45	+10	e 36.2	—
Manila	-3.2	74.4	298	i 11 17 _a	- 1	21 23	-12	—	—
Hong Kong	-3.4	84.2	300	12 11	- 1	22 23	- 1	—	43.2
Zi-ka-wei	z. -3.4	84.8	312	i 12 13 _k	- 2	—	—	—	44.0
Santa Barbara	z. -3.4	84.9	45	i 12 19	+ 3	—	—	—	—
La Jolla	-3.4	85.4	47	e 12 13	- 5	e 22 40	+ 3	—	—
Pasadena	-3.4	85.7	45	i 12 22	+ 2	i 22 47	+ 7	e 38.0	—
Mount Wilson	-3.4	85.8	45	i 12 23	+ 3	—	—	—	—
Berkeley	-3.4	85.9	40	e 12 20	- 1	e 22 38	- 4	—	—
Santiago	-3.4	85.9	127	e 12 2	-19	22 25	-17	—	—
Riverside	-3.4	86.1	46	i 12 24	+ 2	e 22 47	+ 3	—	—
Ukiah	-3.4	86.2	39	e 12 19	- 3	e 22 45	0	e 38.4	—
Medan	-3.4	86.4	276	e 12 29	+ 6	—	—	e 43.2	—
Nanking	-3.4	87.0	310	12 26	0	e 22 49	- 4	39.0	44.6
Haiwee	-3.4	87.1	44	i 12 30	+ 3	e 22 56	+ 2	—	—
Tinemaha	-3.5	87.6	43	i 12 53	+24	e 23 0	+ 1	—	—
Phu-Lien	-3.5	89.1	295	e 12 15	-21	—	—	—	—
Tucson	-3.5	89.2	50	e 12 39	+ 2	23 9	- 6	e 36.4	—
Victoria	-3.5	92.8	33	e 16 41	PP	e 23 24	[-25]	e 37.2	—
La Plata	-3.5	93.3	135	23 31	SKS	(23 31)	[-21]	44.1	—
Chiung	-3.5	93.7	315	i 12 57 _a	- 1	i 23 28	[-26]	e 39.5	50.5
Huancayo	-3.5	94.1	106	e 13 3	+ 3	i 23 42	[-14]	e 42.5	—
Sitha	-3.5	94.7	21	—	—	e 23 17	[-42]	—	—
Butte	-3.6	96.7	39	—	—	e 23 45	[-24]	e 46.5	—
Bozeman	-3.6	97.3	40	—	—	e 23 24	[-49]	—	—
La Paz	-3.6	97.4	113	i 13 25 _a	+10	i 23 59	[-14]	45.2	47.5

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
College	-3.6	98.4	11	e 22	22	?	e 24	23	-17	e 43.7	—
Florissant	—	106.7	52	e 13	51	-24	e 24	35	[-23]	e 50.6	56.6
St. Louis	—	106.8	52	e 18	28	PP	e 25	24	[-20]	e 49.1	—
Kodaikanal	E.	108.0	270	18	30	PP	i 24	43	[-21]	—	56.8
Madison	—	109.2	50	14	11?	-16	—	—	—	—	—
Chicago	—	109.9	52	—	—	—	e 25	41	{-25}	e 49.3	—
Hyderabad	—	110.5	278	—	—	—	28	33	PS	43.5	65.3
Rio de Janeiro	—	110.8	134	e 18	11	[-9]	e 28	28	PS	—	—
Columbia	—	111.5	61	e 19	11	PP	e 25	59	{-19}	—	—
Cape Town	E.	113.6	194	e 26	53	S	—	—	—	e 55.4	66.0
	N.	113.6	194	e 26	13	S	—	—	—	e 54.7	61.0
Agra	E.	115.0	287	19	15	PP	25	2	[-32]	—	—
Bombay	—	116.0	277	18	11	[-24]	28	56	PS	—	64.7
Toronto	—	116.2	53	—	—	—	e 25	14	[-24]	e 46.2	—
San Juan	—	117.4	84	—	—	—	e 25	16	[-26]	—	—
Philadelphia	—	118.0	58	e 19	57	PP	e 26	42	{-21}	e 47.0	—
Ottawa	—	119.2	52	—	—	—	e 25	21	[-27]	49.2	—
East Machias	—	124.8	54	—	—	—	e 51	35	?	e 60.5	—
Tashkent	—	126.2	300	18	53	[-6]	25	42	[-26]	e 52.2	72.0
Sverdlovsk	—	132.4	320	19	13	[+2]	26	27	[+1]	64.2	72.3
Ivigut	—	135.3	32	22	41	PKS	—	—	—	—	—
Scoresby Sund	—	138.0	10	19	8	[-11]	e 33	41	SKSP	61.2	—
Baku	—	140.6	297	19	8	[-14]	—	—	—	55.2	86.2
Grozny	—	143.6	303	e 19	17	[-12]	—	—	—	—	—
Tiflis	—	144.5	300	e 19	15	[-18]	e 32	53	SKSP	64.2	83.0
Erevan	—	144.8	297	e 19	20	[-13]	—	—	—	—	—
Moscow	—	144.9	326	19	17	[-17]	29	19	{-34}	e 62.7	81.3
Piatigorsk	—	145.4	304	e 19	22	[-13]	—	—	—	—	—
Pulkovo	—	145.5	335	i 20	17	[+42]	—	—	—	69.2	82.5
Bergen	—	150.2	357	19	37	[-5]	—	—	—	e 39.2	72.2
Theodosia	—	150.6	309	e 19	35	[-8]	—	—	—	—	—
Ksara	—	151.6	285	i 19	25a	[-19]	—	—	—	72.2	—
Yalta	—	151.6	308	e 19	39	[-5]	—	—	—	—	—
Sebastopol	—	152.0	309	e 19	39	[-5]	—	—	—	—	—
Copenhagen	—	154.0	347	i 19	33	[-14]	e 30	23	{-12}	67.2	—
Edinburgh	—	154.5	8	—	—	—	e 43	11?	SS	e 81.2	—
Helwan	—	155.1	275	i 19	55	[+7]	i 30	59	{+8}	—	84.0
Hamburg	—	156.5	350	i 19	36	[-14]	e 42	11?	SS	e 76.2	85.2
Rathfarnham Castle	—	156.5	13	i 18	26	?	e 30	23	{-36}	68.2	82.2
Stonyhurst	—	156.6	8	e 29	11?	PPPP	e 33	41?	SKSP	e 77.2	86.2
De Bilt	—	158.5	355	i 19	39a	[-13]	e 34	16	SKSP	e 68.2	94.2
Prague	—	158.6	340	e 20	11?	[+19]	e 34	17	SKSP	e 76.2	88.2
Oxford	—	158.8	7	e 19	43	[-9]	i 30	42	{-30}	e 72.8	78.5
Budapest	—	158.9	327	e 20	41	PP	—	—	—	e 87.2	135.7
Kew	—	159.2	5	i 19	38k	[-14]	e 44	14	SS	e 69.2	132.8
Vienna	—	159.5	333	e 19	40	[-13]	—	—	—	e 86.2	—
Cheb	—	159.8	343	e 18	56	[-57]	e 27	51	?	e 43.2	51.2
Ucele	—	159.9	356	i 19	41a	[-13]	i 34	25	SKSP	e 57.2	—
Jersey	—	161.2	9	—	—	—	e 56	11?	?	79.6	—
Stuttgart	—	161.2	346	i 19	42a	[-13]	—	—	—	77.2	88.2
Strasbourg	—	161.7	349	i 19	32a	[-24]	e 30	59	{-29}	e 57.2	89.7
Paris	—	161.9	0	i 19	42a	[-14]	e 29	48	?	77.2	97.2
Basle	—	162.7	348	e 19	43	[-14]	—	—	—	—	—
Zurich	—	162.7	346	e 19	43	[-14]	—	—	—	—	—
Chur	—	162.9	343	e 19	43	[-14]	—	—	—	—	—
Besançon	—	163.2	351	e 24	31	PP	—	—	—	—	—
Neuchatel	—	163.3	349	e 20	44	PKP	—	—	—	—	—
Florence	—	165.2	334	e 19	36	[-23]	—	—	—	50.2	—
Toledo	—	169.4	29	i 19	50	[-13]	i 33	12	{+63}	—	—
Tortosa	N.	169.8	8	i 19	46	[-18]	32	2	{-9}	e 81.2	98.5
San Fernando	—	170.8	49	e 19	57	[-7]	e 32	16	{0}	82.2	—
Granada	—	171.8	36	e 19	54	[-11]	—	—	—	—	—
Almeria	—	172.7	32	e 20	5	0	—	—	—	—	—
Algiers	—	173.9	356	i 19	55	[-11]	e 32	1	{-31}	e 48.2	84.2

For Notes see next page.

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NOTES TO DEC. 26d. 22h. 52m. 49s.

Additional readings :—

Wellington i = +3m.46s.
 Christchurch L_qE = 5m.48s.
 Apia sP = 4m.45s., e = +6m.43s.
 Riverview iZ = +5m.22s., iE = +6m.18s. and +10m.12s., iN = +10m.33s.
 Melbourne i = +7m.23s. and +11m.18s.
 Adelaide i = +8m.35s., +12m.9s., +15m.13s., iSS = +16m.27s., i = +18m.20s.
 Honolulu e = +15m.18s., PS = +17m.23s.
 Batavia iE = +16m.25s.
 Hong Kong PP = +15m.15s., PS = +22m.55s., SS = +27m.27s.
 Pasadena iPPNZ = +15m.52s., iPKP, PKPZ = +38m.32s.
 Berkeley eN = +12m.24s.
 Ukiah e = +22m.18s., eS = +23m.2s., e = +23m.16s.
 Medan ePE = +12m.37s.
 Nanking iPP = +15m.45s., PS = +23m.16s., SSN = +28m.36s., SSE = +29m.7s.,
 SSS = +32m.21s., SSSSE = +33m.37s.
 Tinemaha eN = +23m.19s.
 Phu-Lien e = +12m.36s.
 Tucson S = +23m.35s., ePS = +24m.38s., eSS = +29m.23s., eSSS = +32m.59s.
 Victoria eE = +30m.11s.
 La Plata S = +30m.47s.
 Chiufeng PPNZ = +16m.38s., iS = +24m.1s., iPPSE = +25m.37s.
 Huancayo e = +15m.58s., PS = +25m.36s., eSS = +30m.48s., SS = +30m.55s.,
 eSSS = +34m.42s., e = +37m.50s.
 Sitka eSS = +32m.11s.?
 Butte e = +24m.34s.
 Bozeman eSKS = +23m.46s., eSS = +31m.17s.
 La Paz iPPZ = +17m.31s., iSN = +24m.45s., iPSZ = +26m.11s., SSN =
 +31m.27s., SSSN = +35m.27s.
 College e = +23m.22s., eSSS = +35m.37s.
 Florissant eZ = +13m.58s., +17m.43s., epPKPZ = +18m.32s., ipPPZ =
 +18m.55s., iSKKS = +25m.27s., eSZ = +27m.35s., esSNZ = +28m.48s.
 Kodaikanal PSE = +27m.55s., eSSE = +33m.51s.
 Chicago eSSS = +38m.17s.
 Columbia ePS = +28m.41s.
 Cape Town iN = +28m.51s. and +35m.3s., iE = +35m.6s.
 Agra PSE = +28m.58s., PPSE = +30m.17s., SSE = +35m.30s., SSSE =
 +39m.52s.
 Bombay PPE = +19m.11s., PPPE = +21m.33s., PPS = +30m.26s., SSE =
 +35m.41s.
 Toronto eN = +27m.25s., e = +29m.18s. and +35m.41s.
 San Juan eSKKS = +26m.36s., ePS = +29m.39s.
 Philadelphia e = +25m.6s., eSKSP = +29m.36s., ePS = +29m.41s., eSS =
 +35m.58s.
 Ottawa eE = +29m.35s., e = +36m.17s., eE = +44m.11s.
 East Machias e = +57m.5s.
 Tashkent PP = +20m.17s., PS = +30m.19s., SKSP = +31m.1s., SS = +37m.35s.,
 SSS = +42m.35s.
 Sverdlovsk iPP = +21m.33s., iPKS = +22m.34s., SKKS = +28m.37s., SS =
 +40m.17s.
 Scoresby Sund +22m.43s.
 Baku iPKS = +22m.53s., e = +27m.7s., PPS = +34m.49s.
 Tiflis eN = +7m.17s., eEN = +22m.51s., eN = +27m.23s., eE = +35m.25s. and
 +38m.15s.
 Moscow PP = +22m.33s.
 Pulkovo PS = +34m.54s., PPS = +37m.2s., SS = +43m.5s., SSS = +47m.5s.
 Bergen PP = +28m.35s.
 Ksara ePP = +23m.8s., ePPP = +26m.40s., eSS = +42m.36s.
 Copenhagen PP = +23m.27s., eN = +28m.37s. and +32m.47s., +39m.29s.,
 SS = +42m.41s.
 Helwan e = +20m.59s., i = +23m.33s. and +37m.5s.
 Rathfarnham Castle e = +24m.12s., +34m.19s., and +46m.3s.
 Stonyhurst e = +59m.31s.
 De Bilt iZ = +23m.54s.
 Prague e = +33m.11s.? and +38m.59s.
 Oxford i = +23m.13s., +23m.52s., and +24m.49s.
 Budapest e = +53m.11s.?
 Kew iPP = +23m.57s., iZ = +29m.55s., iPPSZ = +37m.33s., eN = +38m.58s.,
 ePSEN = +35m.0s., eSSSE = +50m.32s., eNZ = +52m.6s., eE = +58m.58s.
 Uccle iNZ = +20m.20s., +23m.20s., and +23m.59s., eN = +27m.14s., iZ =
 +27m.43s., eN = +29m.50s.
 Jersey e = +58m.38s., i = +63m.20s., e = +78m.11s.?
 Stuttgart ePKPNZ = +20m.20s., ePP = +23m.6s., ePPP = +27m.41s., ePPP =
 +32m.11s., eSKSP = +34m.35s., eSS = +45m.29s.

Continued on next page.

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Strasbourg $iPPZ = +24m.7s.$, $eN = +24m.41s.?$ $ePPPZ = +27m.53s.$, $eZ = +29m.53s.$, $eN = +32m.16s.$, $eZ = +33m.34s.$, $ePSKS = +34m.36s.$,
 $i = +35m.15s.$, $e = +37m.41s.$, $eSS = +44m.44s.$
 Paris $PP = +24m.10s.$, $e = +29m.48s.$
 Zurich $e = +20m.33s.$
 Toledo $PKP_2Z = +20m.4s.$, $iPPZ = +24m.48s.$, $PPPZ = +29m.5s.$, $iS_cSPKP = +35m.27s.$, $iSSEN = +45m.52s.$, $iSSSN = +52m.43s.$
 San Fernando $e = +20m.19s.$, $ePP = +25m.43s.$, $eSS = +46m.35s.$
 Granada $ePP = +25m.8s.$
 Long waves were also recorded at Oak Ridge and other European stations.

Dec. 26d. Readings also at 0h. (near Kobe and Sumoto), 4h. (near Andijan), 5h. (Frunse), 9h. (Nanking and near Taihoku), 13h. (near Apia), 14h. (San Francisco, near Berkeley, and near Kobe), 15h. (Sverdlovsk, Tashkent, Vladivostok, Chiufeng, Nanking, Hong Kong, and near Manila), 16h. (De Bilt, Strasbourg, and near Nagoya), 17h. (Almata, near Nagoya (2), and near Wellington), 18h. (Yalta), 22h. (Bidston), 23h. (near Nagoya and near Santiago).

Dec. 27d. 0h. 14m. 47s. Epicentre $34^{\circ}4N$. $139^{\circ}2E$. N.1.
 (Epicentre given by Japanese).

$A = -.6246$, $B = +.5391$, $C = +.5650$; $\delta = -2$;
 $D = +.653$, $E = +.757$; $G = -.427$, $H = +.369$, $K = -.825$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Susaki	0.3	326	0 3k	- 1	0 8	0	—	—
Ito	0.6	352	0 2k	- 7	0 8	- 7	—	—
Mera	0.7	45	0 9a	- 1	0 19	+ 1	—	—
Misima	0.7	344	0 0k	-10	0 10	- 8	—	—
Numadu	0.8	22	0 11k	0	0 21	0	—	—
Omaesaki	0.8	284	0 11a	0	0 24	+ 3	—	—
Kamakura	0.9	17	0 12k	- 1	0 27	+ 4	—	—
Yokohama	1.1	20	0 16a	0	0 31	S*	—	—
Hunatu	1.2	342	0 16k	- 1	0 34	S*	—	—
Katuura	1.2	51	0 15	- 2	0 30	- 1	—	—
Hamamatu	1.3	285	0 15a	- 3	0 31	- 2	—	—
Komaba	1.3	18	0 18	0	0 35	+ 2	—	—
Mitaka	1.3	13	0 18	0	0 39	+ 6	—	—
Tokyo, Cent. Met. Obs.	1.3	19	0 19a	+ 1	0 38	+ 5	—	0.7
Tokyo I.U.	1.3	19	0 21	+ 3	0 40	+ 7	—	—
Hatidyozima	1.4	158	0 19k	- 1	0 36	0	—	—
Kohu	1.4	337	0 19k	- 1	0 46	+10	—	—
Iida	1.6	315	0 25k	+ 2	0 45	+ 4	—	—
Kumagaya	1.8	7	0 26a	0	0 50	+ 4	—	—
Tukubasan	1.9	22	0 26a	- 2	0 51	+ 2	—	—
Tyosi	1.9	46	0 26	- 2	0 52	+ 3	—	—
Kakioka	2.0	24	0 27a	- 2	0 54	+ 3	—	—
Maebasi	2.0	357	0 29	0	0 55	+ 4	—	—
Nagoya	2.0	293	e 0 28	- 1	i 0 52	+ 1	—	1.2
Oiwake	2.0	345	0 30k	+ 1	0 57	S*	—	—
Matumoto	2.1	331	0 30k	0	1 9	S _r	—	—
Gihu	2.2	297	0 31	0	0 57	0	—	—
Mito	2.2	27	0 35	+ 4	1 16	+19	—	—
Tu	2.2	279	0 46	+15	1 19	+22	—	—
Utunomiya	2.2	14	0 32	+ 1	1 0	+ 3	—	—
Kameyama	2.3	281	0 34	+ 1	1 8	S _r	—	—
Nagano	2.4	340	0 39k	+ 5	1 14	S _r	—	—
Takayama	2.4	318	0 35k	+ 1	1 16	S _r	—	—
Ibukisan	2.5	293	0 37a	+ 1	1 25	S _r	—	—
Hikone	2.6	290	0 37a	0	1 10	+ 3	—	—
Takada	2.8	344	0 40	0	1 22	S*	—	—
Toyama	2.8	325	0 47k	+ 7	1 30	S _r	—	—
Yagi	2.8	272	0 40	0	1 41	+29	—	—
Kyoto	2.9	282	0 42a	+ 1	1 32	S _r	—	—
Onahama	2.9	29	0 36a	- 5	1 12	- 2	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hukui	3.0	305	0 33	-10	1 14	- 3	—	—
Husiki	3.0	324	0 47	+ 4	1 29	S_g^*	—	—
Kanazawa	3.0	316	0 45	+ 2	1 35	S_g^*	—	—
Osaka	3.0	275	0 45	+ 2	1 36	S_g^*	—	—
Siomisaki	3.0	252	0 41	- 2	1 22	+ 5	—	—
Kobe	3.4	276	e 0 47 ^a	- 2	1 22	- 5	—	2.0
Wakayama	3.4	266	0 47 ^a	- 2	1 29	+ 2	—	—
Hokusima	3.5	13	0 49	- 1	1 33	+ 3	—	—
Miyadu	3.5	290	0 50	0	1 28	- 2	—	—
Niigata	3.5	358	1 8	P_g	1 50	S_g	—	—
Wazima	3.5	330	0 55 ^a	+ 5	1 48	S_g	—	—
Sumoto	3.6	269	i 0 49 ^a	- 2	1 34	+ 2	e 2.0	2.2
Tokusima	3.8	266	1 2	P^*	1 50	S_g^*	—	—
Toyooka	3.8	289	0 53 ^a	- 1	1 54	S_g^*	—	2.4
Yamagata	4.0	14	1 2	+ 5	2 18	S_g	—	—
Sendai	4.1	19	0 58 ^k	0	2 4	S_g^*	—	—
Okayama	4.3	275	1 2	+ 1	2 12	S_g	—	—
Isinomaki	4.4	22	0 41	-22	—	—	—	—
Tadotu	4.5	269	0 53	-11	1 52	- 3	—	—
Koti	4.8	262	1 7	- 1	2 13	+10	—	—
Mizusawa	5.0	18	e 1 13	+ 2	i 2 11	+ 3	—	—
Akita	5.3	7	1 20	+ 5	2 37	S_g^*	—	—
Matuyama	5.4	265	1 14 ^a	- 3	3 3	S_g^*	—	—
Morioka	5.5	14	1 17	- 1	2 48	S_g^*	—	—
Hirosima	5.6	267	1 19	- 1	—	—	—	—
Miyako	5.7	22	1 26	+ 5	2 15	-10	—	—
Hamada	5.9	278	1 24	0	2 28	- 3	—	—
Ooita	6.4	261	1 19 ^a	-12	3 19	S_g^*	—	—
Aomori	6.5	8	1 40	+ 8	3 18	S_g^*	—	—
Simonoseki	6.9	264	1 39	+ 1	—	—	—	—
Miyazaki	7.0	251	1 37	- 2	3 5	+ 6	—	—
Kumamoto	7.3	259	1 42	- 2	3 19	+13	—	—
Hukuoka	7.3	270	1 44	0	3 29	S_g^*	—	4.9
Hukuoka B	7.3	270	e 1 42	- 2	e 3 32	S_g^*	3.8	4.9
Hakodate	7.5	9	2 3	P^*	4 4	S_g	—	—
Kagosima	7.8	251	1 46	- 5	3 47	S_g^*	—	—
Muroran	8.0	9	2 6	+13	—	—	—	—
Nagasaki	8.0	260	1 56	+ 3	—	—	—	—
Urakawa	8.3	19	1 55	- 3	3 35	+ 4	—	—
Husan	8.4	278	e 2 7	+ 8	e 4 5	S_g^*	—	—
Sapporo	8.8	9	2 11 ^a	+ 6	4 30	S_g^*	—	—
Tomie	8.9	262	2 28	+22	4 46	S_g	—	—
Obihiro	9.1	18	2 11	+ 2	3 48	- 3	—	—
Kusiro	9.5	23	2 39	+25	—	—	—	—
Asahigawa	9.7	13	2 26	+ 9	—	—	—	—
Nake	10.2	237	2 30	+ 6	—	—	—	—
Nemuro	10.2	27	3 51	+87	6 54	S_g^*	—	—
Keizyo	10.4	291	e 2 35	+ 9	e 4 59	S_g^*	—	—
Vladivostok	10.4	330	e 2 28	+ 2	e 4 20	- 3	5.0	6.0
Zinsen	10.7	291	e 2 36	+ 5	e 4 41	+10	—	—
Heizyo	11.7	297	e 2 53	+ 9	e 5 23	+28	—	—
Naha	12.9	234	2 10	-51	5 3	-22	—	—
Dairen	14.8	293	3 37	+11	6 37	+27	—	—
Zi-ka-wei	15.2	263	e 3 30	- 1	6 45	+25	9.4	10.1
Nanking	17.2	268	3 55 ^k	- 2	7 26	+20	9.2	10.1
Taihoku	18.0	243	e 4 28	+21	e 7 57	+32	—	13.2
Chiufeng	19.2	295	e 4 21	0	7 57	+ 7	—	10.6
Arisan	19.4	242	4 25	+ 2	—	—	—	—
Taito	19.6	240	4 29	+ 4	—	—	—	—
Kosyun	20.4	241	4 28	- 6	8 54	+40	—	—
Hong Kong	24.5	247	5 19 [?]	+ 4	9 46	+14	—	14.9
Manila	25.7	224	e 5 22	- 4	10 13	+20	—	—
Semipalatinsk	45.0	310	e 8 16	+ 3	—	—	—	—
Medan	48.6	241	e 9 18	+37	—	—	e 29.2	—
Frunse	49.9	301	e 8 50	- 1	16 11	+12	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	52.1	298	9 8	+ 1	16 44	+14	—	—
Agra	E. 52.3	280	e 9 10	+ 1	e 16 10	-23	—	—
Tashkent	54.1	300	e 9 26	+ 4	i 17 8	+11	e 26.2	31.5
Sverdlovsk	55.8	320	i 9 53	+19	i 17 47	+27	e 28.2	33.9
Honolulu	56.1	85	—	—	e 23 23	SSS	e 25.4	—
Samarkand	56.3	299	9 30	- 8	—	—	—	—
Moscow	68.1	324	—	—	e 16 43	?	—	39.1
Adelaide	69.3	181	e 20 8	S	(e 20 8)	- 5	—	40.5
Grozny	69.4	310	e 11 13	+ 6	—	—	38.2	—
Piatigorsk	70.8	312	e 11 35	+19	—	—	37.2	—
Tiflis	70.8	308	e 11 20	+ 4	e 20 36	+ 5	e 34.2	39.9
Erevan	71.8	307	e 11 21	- 1	—	—	—	—
Scoresby Sund	74.2	354	e 11 38	+ 2	—	—	33.2	—
Tinemaha	Z. 78.6	53	i 12 0	0	—	—	—	—
Copenhagen	79.1	333	12 3	0	—	—	39.2	—
Santa Barbara	Z. 79.1	56	i 12 4	+ 1	—	—	—	—
Haiwee	Z. 79.8	54	e 12 3	- 4	—	—	—	—
Pasadena	80.3	56	i 12 10 ^k	+ 1	—	—	e 35.2	—
Mount Wilson	Z. 80.4	56	e 12 9	- 1	—	—	—	—
Ksara	81.0	305	e 12 23	+10	e 22 33	+ 7	—	—
Riverside	Z. 81.0	56	i 12 9	- 4	—	—	—	—
La Jolla	81.7	56	e 12 19	+ 2	—	—	—	—
Vienna	82.9	326	e 12 23	0	e 22 19	-27	e 43.9	—
Belgrade	83.3	321	e 12 27 ^a	+ 2	—	—	e 35.5	—
De Bilt	84.6	334	e 12 29	- 2	—	—	e 43.2	59.4
Stuttgart	85.7	330	e 12 37	0	—	—	—	49.8
Uccle	86.0	334	e 12 39	+ 1	—	—	e 43.2	—
Strasbourg	86.4	331	e 12 40	0	e 23 46	+25	—	51.5
Chur	87.0	329	e 12 44	+ 1	—	—	e 48.6	—
Zurich	87.0	330	e 13 4	+21	—	—	—	—
Basle	87.3	330	e 12 46	+ 1	—	—	—	—
Toledo	99.9	332	i 17 9	PP	e 19 50	?	—	—
La Paz	N. 149.7	60	19 49	[+ 8]	—	—	56.7	78.8

Additional readings :—

Kobe eZ = +56s., iE = +1m.11s., iN = +1m.13s., S?N = +1m.25s., SZ = +1m.31s., iE = +1m.42s., iN = +1m.45s., iSE = +1m.52s.

Sumoto SE = +1m.36s., eSZ = +1m.45s.

Toyooka iZ = +57s., iE = +1m.7s., iZ = +1m.37s., iN = +1m.41s., iE = +1m.43s., SN = +1m.56s., SE = +1m.58s.

Husan ? = +10m.27s.

Vladivostok e = +2m.34s., +2m.57s., +3m.4s., +3m.30s., eS = +4m.44s.

Zi-ka-wei iZ = +8m.10s.

Chiufeng P = +4m.25s., iE = +8m.11s., iZ = +8m.23s.

Kosyun +9m.3s.

Hong Kong SS = +10m.19s.

Andijan e = +13m.23s.

Adelaide e = +27m.53s.

Tinemaha iZ = +13m.32s.

Pasadena ePPZ = +14m.51s.

Mount Wilson iPZ = +12m.11s. k iZ = +13m.37s.

Belgrade e = +13m.56s.

Toledo e = +17m.24s.

Long waves were also recorded at Phu-Lien, Hyderabad, Yalta, Pulkovo, Ivigtut, Tucson, and other European stations.

Dec. 27d. 1h. 36m. 11s. Epicentre 34°·4N, 139°·2E. (as at 0h.).

X.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagoya	2.0	293	i 0 29 ^a	0	0 53	+ 2	1.0
Kobe	E. 3.4	276	e 0 44	- 5	1 28	+ 1	1.8
	N. 3.4	276	e 0 49	0	e 1 25	- 2	—
	Z. 3.4	276	e 0 47	- 2	e 1 26	- 1	1.7
Sumoto	3.6	269	—	—	e 1 27	- 5	—
Toyooka	N. 3.8	289	0 54	0	—	—	—
Misusawa	5.0	18	e 1 17	+ 6	e 2 32	S _a	—

Additional readings :—

Kobe eE = +1m.8s., eZ = +1m.13s.

Toyooka PZ = +1m.1s., PE = +1m.4s.

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Dec. 27d. 2h. 12m. 26s. Epicentre 34°·4N. 139°·2E. (as at 1h.). X.

A = -·6246, B = +·5391, C = +·5650 ; $\delta = -2$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·0	293	0 30	+ 1	0 56	S*	—	1·3
Kobe	3·4	276	e 0 48	- 1	e 1 18	- 9	1·8	2·1
Sumoto	3·6	269	0 51k	0	e 1 35	+ 3	e 2·3	2·5
Toyooka	3·8	289	0 55	+ 1	1 56	S _r	—	2·3
Mizusawa	5·0	18	e 1 12	+ 1	e 2 7	- 1	—	—
Hukuoka	7·3	270	e 2 7	P*	3 48	S _r	—	—
Hukuoka B	7·3	270	e 1 41	- 3	e 3 56	S _r	—	—
Husan	8·4	278	e 1 52	- 7	e 3 45	+11	—	—
Vladivostok	10·4	330	e 2 30	+ 4	e 4 40	+17	5·4	6·4
Zinsen	10·7	291	—	—	e 5 21	S*	—	—
Zi-ka-wei	z. 15·2	263	—	—	e 7 0	+40	—	10·1
Nanking	17·2	268	4 0	+ 3	7 32	+26	9·1	—
Chiufeng	19·2	295	e 4 24	+ 3	i 7 58	+ 8	—	13·5
Calcutta	N. 45·8	269	—	—	e 16 53	?	—	28·4
Agra	E. 52·3	280	—	—	e 16 57	+24	—	—
Sverdlovsk	55·8	320	—	—	e 22 23	SSS	30·6	—
Pulkovo	69·3	330	—	—	e 26 58	?	38·6	46·1
Tiflis	70·8	308	e 11 31	+15	e 21 3	+32	e 36·1	41·4
Pasadena	z. 80·3	56	e 12 11	+ 2	—	—	—	—
Mount Wilson	z. 80·4	56	e 12 8	- 2	—	—	—	—
Ksara	81·0	305	e 12 39	+26	i 23 59	?	—	—
La Paz	N. 149·7	60	e 19 50	[+ 9]	—	—	—	—

Additional readings :—

Mizusawa eSN = +2m.12s.

Kobe eN = +1m.2s., SN = +1m.26s.

Toyooka SN = +1m.59s.

Long waves were also recorded at Hong Kong, Phu-Lien, Moscow, Copenhagen, De Bilt, Strasbourg, Stuttgart, Cheb, and Paris.

Dec. 27d. 8h. 43m. 4s. Epicentre 4°·5S. 153°·9E. X.

(forerunner of large shock on 29d.).

A = -·8953, B = +·4386, C = -·0785 ; $\delta = +9$;
D = +·440, E = +·898 ; G = +·070, H = -·035, K = -·997.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	N. 29·5	185	e 6 1	0	e 11 23	+27	—	15·3
Sydney	29·5	185	—	—	e 11 20	+24	14·6	16·3
Adelaide	33·6	202	i 6 38	+ 1	e 11 39	-21	—	18·6
Melbourne	34·3	192	—	—	i 11 56	-15	i 15·4	17·3
Christchurch	42·4	160	13 29	S	(13 29)	-42	19·7	21·6
Perth	45·0	228	16 56?	S	(16 56?)	?	—	25·9
Nanking	49·5	320	e 8 47	0	15 47	- 7	—	—
Chiufeng	56·5	326	e 9 34	- 5	e 17 16	-14	—	—
Frunse	85·3	313	e 12 30	- 5	—	—	—	—
Andijan	88·6	311	e 12 41	0	—	—	—	—
Tashkent	88·9	311	e 13 35	+43	i 23 31	[+ 5]	e 42·3	45·4
Samarkand	90·5	309	e 13 3	+ 3	—	—	—	—
Pasadena	z. 90·8	56	e 13 21	+20	—	—	—	—

Additional readings :—

Adelaide i = +16m.20s.

Christchurch S? = +17m.32s., L₄E = +17·9m.

Chiufeng iN = +19m.15s.

Long waves were also recorded at Tiflis, Sverdlovsk, and Hong Kong.

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Dec. 27d. 12h. 31m. 59s. I) 13h. 44m. 31s. II)		Epicentre 34°·4N. 139°·2E. (as at 0h. and 2h.)						X. X.	L.	M.
	Δ	Az.	P.	O-C.	S.	O-C.				
	°	°	m. s.	s.	m. s.	s.	m.	m.	m.	
I Nagoya	2.0	293	0 29	0	0 55	+ 4	—	—	1.0	
II	2.0	293	0 28	- 1	0 50	- 1	—	—	1.6	
I Kobe	3.4	276	e 0 48	- 1	1 26	- 1	—	—	1.8	
II	3.4	276	e 0 47	- 2	e 1 24	- 3	—	—	2.3	
I Sumoto	3.6	269	0 50 _k	- 1	e 1 37	+ 5	2.6	—	—	
II	3.6	269	0 49 _a	- 2	1 32	0	2.3	—	2.7	
I Toyooka	Z.	3.8	289	0 55	+ 1	—	—	—	—	
II		3.8	289	0 56	+ 2	1 52	S*	—	2.8	
I Mizusawa		5.0	18	e 1 13	+ 2	e 2 17	+ 9	—	—	
II	E.	5.0	18	e 1 12	+ 1	e 2 29	S*	—	—	
	N.	5.0	18	e 1 11	0	e 2 25	S*	—	—	
II Hukuoka B		7.3	270	—	—	3 25	+19	—	—	
II Keizyo	E.	10.4	291	e 4 46	S	(e 4 46)	+23	—	—	
II Zi-ka-wei	Z.	15.2	263	—	—	e 6 51	+31	—	10.6	
II Nanking		17.2	268	e 3 59	+ 2	—	—	e 9.2	—	
II Chiufeng		19.2	295	e 4 30	+ 9	i 8 3	+13	e 9.2	14.8	
II Calcutta	N.	45.8	269	—	—	18 26	SS	—	27.5	

Additional readings:—

Kobe I ePN = +51s., eE = +1m.21s., II SEN = +1m.39s., iE = +2m.2s.

Sumoto II SE = +1m.34s., SN = +1m.37s.

Toyooka I PN = +1m.0s., PE = +1m.4s.

Long waves to Shock II also recorded at Tifis and Strasbourg.

Dec. 27d. Readings also at 0h. (Kobe, Toyooka (2), Sumoto, near Nagoya (2), and St. Louis), 1h. (Sumoto and near Nagoya (3)), 2h. (Sumoto, Toyooka, and near Nagoya (7)), 3h. (7), 5h. (2), 8h., and 12h. (3) (near Nagoya), 13h. (Nagoya and Weston), 14h. (Kodaikanal and near Malabar), 16h. (Bombay, Calcutta Kodaikanal, Colombo, Hyderabad, Medan, Hong Kong, Nanking, Phu-Lien, Chiufeng (2), Vladivostok, Andijan (2), Batavia, Frunse, and Sverdlovsk), 17h. (Andijan and near Nagoya), 18h. (Huancayo, La Paz, Tucson, Bozeman, Vladivostok, near Kobe, and near Nagoya (2)), 19h. (Frunse, Sverdlovsk, Tifis, and near Andijan), 20h., 21h., and 22h. (Nagoya), 23h. (Nagoya (2), Calcutta, and near Apia).

Dec. 28d. 0h. 29m. 7s. Epicentre 32°·5N. 8°·0E. N.3.

A = +.8352, B = +.1174, C = +.5373; $\delta = +3$;

D = +.139, E = -.990; G = +.532, H = +.075, K = -.843.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	5.9	318	i 1 21	- 3	2 43	+12	—	—
Almeria	9.6	300	2 7	- 9	e 4 33	S*	—	—
Barcelona	10.1	334	—	—	e 4 5	-11	—	7.1
Tortosa	N.	10.2	326	2 23	- 1	5 16	S _g	e 5.5
Granada		10.6	299	e 2 31	+ 2	e 4 8	-20	—
Florence	11.6	12	0 53	?	—	—	—	5.4
San Fernando	12.3	292	—	—	e 6 31	S _g	—	—
Chur	14.4	4	e 3 25	+ 4	e 6 10	+ 9	—	—
Neuchatel	14.5	357	e 3 28	+ 6	—	—	—	—
Zurich	14.9	2	e 3 32	+ 5	e 6 14	+ 1	—	—
Basle	15.1	358	e 3 28	- 2	—	—	—	—
Strasbourg	16.1	359	e 3 45	+ 2	(e 6 53?)	+12	e 6.9	—
Stuttgart	16.3	3	e 3 59	+14	—	—	e 10.6	—
Vienna	Z.	17.0	20	e 4 21	+27	—	—	—
Uccle		18.4	352	e 4 10	- 1	e 7 42	+ 9	e 7.9
Dakar		29.2	239	(i 9 56)	?	11 20	+29	—

Additional readings:—

Algiers P_g = +1m.38s., PP_g = +1m.43s., SS_g = +2m.47s., i = +3m.33s.

Barcelona eS = +5m.9s. = S*.

Dakar first reading is given as iS, the second without phase.

Long waves were also recorded at Tifis, Baku, Sverdlovsk, Cheb, De Bilt, Paris, Kew, Stonyhurst, and Edinburgh.

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Dec. 28d. 17h. 20m. 0s. Epicentre 34°·4N. 139°·2E. (as on 27d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2.0	293	e 0 30	+ 1	i 0 55	+ 4	—	0.9
Kobe	3.4	276	0 47 ^a	- 2	i 1 26	- 1	—	2.0
Sumoto	3.6	269	0 50	- 1	1 30	- 2	2.2	2.6
Toyooka	E. 3.8	289	0 56	+ 2	1 38	+ 1	—	1.9
	N. 3.8	289	0 57	+ 3	1 46	+ 9	—	2.3
	Z. 3.8	289	0 53	- 1	1 38	+ 1	—	2.0
Mizusawa	5.0	18	e 1 13	+ 2	e 2 22	S*	—	—
Hukuoka	7.3	270	e 2 11	P _g	e 3 53	S _g	—	—
Hukuoka B	7.3	270	1 44	0	4 7	S _g	—	—
Husan	8.4	278	—	—	e 4 27	S _g	—	—
Keizyo	E. 10.4	291	e 5 1	S*	—	—	—	—
Vladivostok	10.4	330	e 2 33	+ 7	e 4 43	+ 20	5.4	9.7
Zi-ka-wei	Z. 15.2	263	e 3 20	- 11	—	—	9.4	9.8
Chiufeng	19.2	295	e 4 22	+ 1	7 49	- 1	8.6	13.4
Hong Kong	24.5	247	—	—	10 4	+ 32	—	15.2
Manila	25.7	224	6 58	?	10 12	+ 19	—	—
Baku	68.1	306	e 21 30	S	(e 21 30)	S _c S	34.6	—

Additional readings:—

Kobe eN = +1m.8s., eZ = +1m.12s.

Sumoto SZ = +1m.36s., iEN = +1m.39s.

Baku eS = +28m.20s.

Long waves were also recorded at Calcutta, Sverdlovsk, and European stations.

Dec. 28d. Readings also at 0h. (near Nagoya), 1h. (Tacubaya), 3h. (Huancayo), 7h. (Paris), 9h. (Balboa Heights), 14h. (Andijan, Frunse, Neuchatel, Zurich, Chiufeng, Mizusawa, and near Nagoya (2)), 22h. (3), and 23h. (near Nagoya).

Dec. 29d. 13h. 59m. 58s. Epicentre 13°·5N. 92°·5W. X.

(as on 1936 Nov. 14d.).

A = -0.424, B = -0.9714, C = +0.2334; δ = -11;
D = -0.999, E = +0.044; G = -0.010, H = -0.233, K = -0.972.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya	N. 8.8	313	2 2?	- 3	—	—	—	—
Little Rock	N. 21.3	2	e 4 42	- 1	—	—	—	—
Columbia	23.0	25	e 5 4	+ 3	e 9 15	+ 10	e 12.6	—
St. Louis	25.2	4	i 5 22	0	e 10 44	+ 60	—	—
Tucson	25.2	321	e 5 23	+ 1	e 9 52	+ 8	—	—
Philadelphia	30.5	27	—	—	e 12 34	SS	e 17.5	—
Huancayo	30.7	146	e 3 34	?	e 11 18	+ 2	15.6	—
Pasadena	Z. 31.1	316	e 6 9	- 6	—	—	—	—
Haiwee	Z. 32.2	319	e 6 24	0	—	—	—	—
Tinemaha	32.9	320	i 6 30	- 1	—	—	—	—
La Paz	N. 38.5	140	e 8 22	+ 63	16 48	SSSS	21.6	23.5
Nagoya	112.5	317	e 27 41	PS	—	—	—	—
Tashkent	122.7	16	—	—	e 28 2	{+27}	—	—
Andijan	124.0	14	—	—	e 25 38	[-24]	—	—

Additional readings:—

Little Rock iEN = +4m.55s., iN = +6m.6s.

Columbia eS = +9m.24s.

St. Louis iN = +6m.51s.

Tucson eSS = +12m.50s.

Huancayo e = +9m.53s., e = +14m.8s.

Tashkent i = +38m.23s., e = +53m.2s.

Long waves were also recorded at Berkeley, Copenhagen, Ivigtut, Jersey, De Bilt, Cheb, East Machias, Stuttgart, Strasbourg, Paris, Scoresby Sund, Sverdlovsk, and Pulkovo.

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Dec. 29d. 14h. 47m. 49s. Epicentre 4°·5S. 153°·9E. N.1.

(for a small shock anticipating this see Dec. 27d.).

A = -·8953, B = +·4386, C = -·0785; $\delta = +9$;
D = +·440, E = +·898; G = +·070, H = -·035, K = -·997.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	22·7	300	4 55	- 3	8 44	-15	—	—
Riverview	29·5	185	i 6 1 _a	0	10 42	-14	e 12·2	16·3
Sydney	29·5	185	e 5 41	-20	i 10 11	-45	14·5	16·3
Adelaide	33·6	202	i 6 39	+ 2	i 11 50	-10	—	18·4
Melbourne	34·3	192	6 46	+ 3	12 4	- 7	15·2	17·3
Apia	35·1	107	e 7 11	+21	—	—	—	—
Manila	37·8	301	7 15 _a	+ 2	12 42	-21	—	—
Naha	39·9	320	7 40	+ 9	—	—	—	—
Nake	40·4	326	7 36	+ 1	13 38	- 4	—	—
Isigakizima	40·9	317	7 40	0	13 41	- 9	—	—
Wellington	41·3	156	7 41	- 2	14 26	+30	19·2	21·2
Siomisaki	41·6	338	7 44	- 1	—	—	—	—
Kosyun	41·9	311	7 49	+ 1	—	—	—	—
Taito	42·0	311	7 50	+ 1	14 4	- 2	—	—
Tyosi	42·0	345	7 42	- 7	—	—	—	—
Hamamatu	42·1	341	8 41	+52	—	—	—	—
Miyazaki	42·2	331	7 52 _a	+ 2	14 3	- 6	—	—
Tokyo	42·3	343	7 56	+ 5	—	—	—	—
Christchurch	42·4	160	i 7 48 _a	- 4	i 14 0	-11	20·0	—
Karenko	42·4	312	7 56	+ 4	—	—	—	—
Kameyama	42·6	340	7 41	-12	—	—	—	—
Kohu	42·6	342	7 34	-19	—	—	—	—
Koti	42·6	335	7 51	- 2	—	—	—	—
Wakayama	42·6	338	7 50	- 3	—	—	—	—
Arisan	42·7	313	7 55	+ 1	—	—	—	—
Kakioka	42·7	345	7 39	-15	14 1	-15	—	—
Nagoya	42·7	338	8 4	+10	9 28	?	—	—
Tukubasan	42·7	345	7 47	- 7	—	—	—	—
Giran	42·8	314	7 56	+ 1	—	—	—	—
Mito	42·8	345	7 56	+ 1	—	—	—	—
Osaka	42·8	338	8 34	+30	—	—	—	—
Sumoto	42·8	338	e 7 51	- 4	—	—	e 17·8	—
Kumagaya	42·9	344	7 59	+ 3	—	—	—	—
Tainan	42·9	311	8 0	+ 4	—	—	—	—
Kobe	43·0	338	e 6 41	-76	e 17 37	SSS	—	22·7
Hikone	43·1	339	7 49	- 9	—	—	—	—
Maebasi	43·2	344	8 1	+ 3	—	—	—	—
Matuyama	43·2	334	7 58	0	—	—	—	—
Taihoku	43·2	314	7 59	+ 1	14 16	- 8	—	—
Kumamoto	43·3	331	7 59 _a	0	—	—	—	—
Oiwake	43·3	342	8 1	+ 2	—	—	—	—
Unzendake	43·5	330	7 52	- 9	—	—	—	—
Nagano	43·7	342	8 8	+ 6	—	—	—	—
Nagasaki	43·7	331	8 2	0	14 20	-11	—	—
Aidu	44·0	346	8 22	+17	—	—	—	—
Toyama	44·0	342	8 7	+ 2	14 7	-29	—	—
Hukusima	44·1	346	8 5	- 1	—	—	—	—
Tomie	44·1	329	8 6	0	—	—	—	—
Hamada	44·4	334	8 7	- 1	14 31	-10	—	—
Sendai	44·4	346	8 8	0	—	—	—	—
Yamagata	44·6	346	8 15	+ 5	—	—	—	—
Wazima	44·8	341	8 6	- 5	—	—	—	—
Perth	45·0	228	7 41	-32	14 31	-19	21·4	24·7
Mizusawa	45·2	346	e 8 2	-12	e 9 5	?	—	—
Husan	46·0	330	8 22	+ 1	14 44	-20	—	—
Malabar	46·1	265	8 27	+ 6	—	—	—	—
Batavia	46·9	266	i 8 25 _a	- 3	e 13 56	?	e 22·2	—
Hong Kong	47·2	307	8 29 _k	- 1	15 16	- 5	—	—
Zi-ka-wei	z. 47·2	322	i 8 29 _k	- 1	15 15	- 6	23·4	26·2
Hakodate	47·8	347	8 53	+18	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Obihiro	48.4	350	8 35	- 4	—	—	—	—
Sapporo	48.9	348	8 45	+ 2	15 41	- 4	—	—
Keizyo	49.0	332	e 8 44	0	e 15 39	- 8	e 19.4	—
Zinsen	49.0	331	i 8 46 ^a	+ 2	e 15 41	- 6	—	—
Asahigawa	49.4	349	8 56	+ 9	—	—	—	—
Nanking	49.5	320	i 8 47 ^a	0	i 15 47	- 7	20.1	—
Heizyo	50.7	332	e 8 54	- 3	—	—	—	—
Vladivostok	51.6	340	i 9 4	+ 1	i 16 15	- 8	22.0	33.0
Phu-Lien	52.8	301	9 15	+ 3	16 34	- 5	—	—
Honolulu	53.9	59	—	—	e 16 23	-31	25.4	—
Medan	55.8	278	9 34	0	i 17 12	- 8	—	—
Chiufeng	56.5	326	i 9 39 ^a	0	i 17 19	-11	22.7	—
Calcutta	69.5	296	11 11	+ 3	20 25	+10	e 33.6	—
Colombo	74.8	278	11 39	0	20 55	-23	36.8	40.0
Kodaikanal	77.5	282	i 11 53	- 2	i 21 38	-10	i 35.2	40.2
Agra	79.6	298	i 11 55	-11	i 21 49	-22	—	—
College	81.3	21	e 13 2	+47	22 12	-18	e 33.5	—
Bombay	83.1	290	i 12 21	- 3	i 22 32	-16	38.2	—
Semipalatinsk	83.2	322	e 12 11	-13	—	—	—	—
Almata	83.7	315	e 12 30	+ 3	—	—	—	—
Frunse	85.3	313	e 12 31	- 4	22 56	-15	44.2	—
Andijan	86.6	311	e 12 40	- 1	e 23 10	-13	—	—
Ukiah	87.3	51	—	—	23 0	[-15]	e 39.2	—
Berkeley	87.9	52	e 12 55	+ 8	e 23 7	[-12]	—	—
Lick	88.3	52	e 13 23	+34	—	—	—	—
Victoria	88.6	41	e 12 55	+ 4	i 23 9	[-15]	36.2	—
Tashkent	88.9	311	i 12 52	0	23 20	[- 6]	37.2	51.1
Seattle	89.2	42	e 13 29	+35	e 23 15	[-13]	—	—
Santa Barbara	89.6	55	e 13 0	+ 4	—	—	—	—
Fresno	89.8	54	e 13 19	+23	—	—	—	—
Pasadena	90.8	56	e 13 0	- 1	i 23 52	-12	e 41.2	—
Tinemaha	91.0	53	e 13 4	+ 2	—	—	—	—
Haiwee	91.2	54	e 13 3	0	—	—	—	—
La Jolla	91.5	57	e 12 42	-22	e 23 0	[-41]	—	—
Riverside	91.5	56	e 13 4	0	—	—	—	—
Sverdlovsk	95.6	326	i 13 36	+13	i 24 1	[- 3]	35.2	55.8
Bozeman	96.8	44	—	—	e 23 52	[-18]	e 44.8	—
Tucson	96.9	58	e 13 33	+ 4	e 24 2	[- 8]	e 42.7	—
Saskatoon	99.4	37	e 22 11	?	e 31 11	SS	e 48.2	—
Baku	103.6	310	13 59	- 1	25 11	{- 9}	47.2	67.6
Tananarive	103.9	248	18 17	PP	24 34	[-11]	48.9	58.2
Grozny	106.2	313	e 14 43	+31	—	—	e 53.2	—
Tiflis	107.2	312	e 14 21	+ 4	e 24 53	[- 7]	e 48.2	59.6
Erevan	107.7	310	e 13 40	-40	—	—	—	—
Moscow	108.3	327	18 29	[+17]	25 40	{-15}	42.2	60.3
Pulkovo	110.2	333	18 57	PP	25 56	{-12}	49.2	63.5
Little Rock	112.0	54	e 19 20	PP	—	—	e 51.4	—
Madison	112.4	44	e 19 47	PP	e 38 41	SSS	—	—
Florissant	112.7	49	e 19 18	PP	e 25 14	[-11]	—	—
Theodosia	113.1	317	e 29 29	PS	—	—	—	—
St. Louis	113.2	49	e 19 18	PP	e 24 58	[-29]	e 51.8	58.8
Chicago	114.0	45	e 19 28	PP	e 25 11	[-19]	52.9	—
Scoresby Sund	114.0	358	i 19 33	PP	25 15	[-15]	53.2	—
Simferopol	114.0	317	e 18 37	[+ 7]	—	—	—	—
Yalta	114.1	317	e 29 35	PS	—	—	—	—
Upsala	115.5	337	—	—	e 35 11?	SS	e 51.2	59.9
Ksara	115.6	304	i 19 44	PP	29 25	PS	—	—
Ann Arbor	116.6	43	e 20 35	PP	e 26 5	[+26]	e 58.0	64.7
Toronto	119.0	41	e 20 41	PP	e 25 29	[-18]	e 49.2	—
Copenhagen	120.3	336	20 11	PP	29 53	?	54.2	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Helwan	120.4	302	i 20 11	PP	—	—	—	—
Ottawa	120.6	38	e 20 53	PP	e 25 35	[-17]	e 55.2	—
Ivigtut	120.9	12	e 20 41	PP	25 35	[-18]	48.2	—
Columbia	121.3	51	e 20 23	PP	e 25 43	[-11]	e 56.6	—
Sofia	122.0	318	e 20 11?	PP	—	—	—	—
Budapest	122.2	325	e 20 25	PP	—	—	62.2	73.7
Belgrade	122.8	321	e 18 54 _a	[+2]	—	—	e 71.6	—
Hamburg	122.8	335	e 20 35	PP	—	—	e 55.2	66.2
Cape Town	123.0	224	i 20 26	PP	i 25 51	[-8]	51.1	59.2
Prague	123.1	330	e 20 35	PP	e 30 11	SKSP	e 50.2	67.2
Santiago	123.3	135	—	—	e 42 11	SSS	—	—
Vienna	123.3	327	e 18 51	[-3]	30 25	SKSP	e 63.7	—
Philadelphia	123.4	43	e 20 48	PP	e 25 44	[-16]	56.7	—
Cheb	124.1	331	e 20 44	PP	e 30 37	SKSP	e 55.2	64.7
Göttingen	124.2	334	—	—	27 11?	{-33}	—	78.2
Graz	124.4	326	e 21 23	PP	—	—	e 52.2	66.4
Zagreb	124.9	325	e 19 9	[+12]	—	—	e 59.2	—
Edinburgh	125.4	344	e 20 11?	PP	i 28 1	{+9}	e 55.2	—
De Bilt	125.8	337	i 18 59	[0]	—	—	e 55.2	84.1
Durham	126.0	342	20 22	PP	—	—	—	80.2
East Machias	126.0	35	—	—	e 30 55	SKSP	e 58.5	—
Stuttgart	126.5	331	e 16 11	+20	e 26 14	[+5]	e 62.2	—
Stonyhurst	127.0	342	e 22 57	PPP	i 37 52	SS	56.2	62.9
Uccle	127.2	337	e 19 44	[+43]	e 38 45	SS	e 56.2	65.1
Strasbourg	127.3	337	i 19 1 _a	[-1]	e 27 25	{-39}	49.2	78.9
Padova	127.4	327	e 19 11	[+9]	—	—	60.2	—
Bidston	127.6	343	e 19 16	[+14]	e 38 45	SS	e 52.2	65.4
Chur	127.7	331	e 19 3	[+1]	—	—	e 61.9	—
Zurich	127.8	331	e 19 27	[+24]	—	—	—	—
Basle	128.2	332	e 19 3	[0]	—	—	—	—
Huancayo	128.3	108	e 19 6	[+2]	e 28 2	{-9}	e 52.6	—
Kew	128.4	340	e 19 2	[-2]	e 38 12	SS	e 52.2	65.0
Oxford	128.4	341	e 22 16	PP	—	—	54.4	68.7
Rathfarnham Castle	128.6	345	i 18 54	[-10]	e 31 11	SKSP	53.2	64.2
Florence	128.8	325	e 19 1	[-4]	—	—	—	52.2
Neuchatel	128.9	332	e 19 3	[-2]	—	—	—	—
Paris	129.5	336	e 19 6	[0]	—	—	58.2	64.2
La Plata	130.5	144	22 29	PKS	—	—	61.8	—
Jersey	130.9	340	e 22 33	PKS	i 29 40	{+73}	58.4	—
La Paz	133.4	117	i 19 15 _a	[+3]	26 17	[-12]	i 64.0	91.5
Tortosa	N. 136.6	330	e 19 11?	[-6]	22 55	?	e 52.2	108.3
Algiers	138.1	324	e 19 24	[+5]	—	—	e 77.2	94.2
Toledo	139.4	334	e 19 26	[+6]	29 37	{+17}	—	—
San Juan	139.5	66	e 20 40	?	—	—	e 63.7	—
Almeria	141.1	329	e 19 51	[+28]	—	—	e 70.7	—
Granada	141.4	341	e 19 33	[+10]	—	—	70.2	—
San Fernando	143.2	332	i 19 28	[0]	e 42 16	SS	72.2	—
Dakar	166.8	321	i 17 41	?	—	—	—	—

Additional readings :—

Riverview iPE = +6m.2s., iPPN = +6m.39s., SN = +10m.47s., iN = +11m.12s.,
iE = +11m.25s., eSSZ = +11m.50s.

Adelaide i = +7m.12s. and +8m.16s., iPcP = +9m.17s., i = +12m.48s.,
+13m.53s., +15m.21s., and +16m.31s.

Apia i = +7m.49s., epP = +8m.0s., sP? = +8m.33s., PcP? = +9m.18s., esS =
+14m.26s.

Wellington i = +8m.1s., ipP? = +8m.13s., PcP = +9m.55s., PP = +10m.6s.,
PcS = +13m.43s., SS = +17m.7s., ScS = +17m.29s., Lq = +18.4m.

Christchurch PP = +8m.12s., iPcPEN = +10m.10s., isSEN = +14m.44s., iScS =
+17m.27s., LqE = +17.9m.

Kobe ePE = +6m.48s., ePZ = +7m.55s., eE = +9m.46s.

Sendai i = +9m.13s.

Perth PP = +10m.11s., PPP = +10m.46s., PPPP = +11m.9s., PcS = +13m.41s.,
PS = +14m.47s., SS = +17m.56s., SSS = +18m.51s., SSSS = +19m.36s.

Continued on next page.

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Hong Kong PP = +10m.19s., ? = +13m.47s., ? = +16m.1s., S_cS = +18m.18s.,
 SS = +19m.24s.
 Zi-ka-wei iZ = +9m.17s., PPZ = +10m.21s., PPPZ = +10m.57s., iZ = +11m.37s.
 and +16m.5s., SSZ = +18m.37s., iZ = +19m.27s., SSZ = +19m.57s.,
 SSSZ = +20m.25s., iZ = +22m.53s.
 Obihiro i = +9m.36s.
 Zinsen iPPZ = +9m.43s.
 Nanking isS = +16m.31s.
 Honolulu e = +16m.31s., iSP = +16m.58s., i = +17m.59s., e = +18m.39s.,
 +22m.5s., SSS = +22m.47s.
 Chiufeng iZ = +9m.59s., ipP = +10m.26s., isP = +10m.42s., isS = +18m.58s.
 Calcutta PPPN = +15m.18s., PSN = +20m.58s., SSSN = +27m.46s.
 Kodaikanal iSSSSE = +29m.9s.
 Agra PPE = +14m.47s., PPPE = +16m.42s., PSE = +22m.32s., SSE =
 +27m.27s.
 College e = +13m.16s., eSS = +27m.17s., eSS = +27m.27s.
 Bombay PSEN = +23m.24s., SSE = +28m.16s.
 Ukiah e = +23m.6s., eS = +23m.15s.
 Berkeley eZ = +13m.17s., eE = +13m.43s., eN = +13m.49s., eN = +23m.27s.
 Lick eN = +13m.26s.
 Victoria e = +16m.56s., e = +29m.26s., eE = +33m.34s.
 Tashkent PP = +16m.22s., iS = +23m.31s., ePS = +24m.36s., PPS = +25m.11s.,
 eSS = +29m.47s.
 Seattle ePS = +24m.53s., eSS = +29m.47s.
 Sverdlovsk iPP = +17m.24s., iS = +24m.40s., PS = +26m.5s., iSS = +31m.47s.
 Bozeman eSKKS = +24m.43s., eS = +24m.54s., eSS = +31m.27s.
 Tucson eSKKS = +24m.45s., ePS = +26m.9s., eSS = +31m.23s.
 Baku PP = +18m.12s., e = +29m.28s. and +33m.59s.
 Tananarive SKKS = +25m.8s., E = +27m.53s., SS = +33m.11s.
 Tiflis eN = +14m.57s., eE = +17m.50s., ePKPN = +18m.27s., PPEN =
 +18m.45s., SKKSEN = +26m.5s., PSE = +27m.38s., PPSE = +28m.31s.,
 PSSE = +34m.30s.
 Moscow PPP = +21m.3s., S = +26m.7s., SS = +33m.47s.
 Pulkovo S = +26m.25s., PS = +28m.23s., SS = +34m.17s.
 Little Rock epPPEN = +20m.0s., eEN = +22m.0s., esSPE = +29m.6s.
 Madison e = +29m.11s.
 Florissant eE = +19m.24s., iZ = +19m.41s., ipPPZ = +20m.5s., eSE =
 +27m.19s., eZ = +28m.46s., eN = +28m.57s., iZ = +28m.59s., eNZ =
 +29m.33s., iN = +29m.37s., iZ = +29m.40s., iNEZ = +29m.46s., eZ =
 +34m.51s., iN = +35m.2s., eE = +35m.5s.
 St. Louis ipPPEN = +19m.58s., eE = +25m.12s., eSKKSE = +26m.16s.,
 eSN = +26m.50s., eE = +27m.17s., eSSE = +35m.2s., esSSEN = +36m.23s.
 Chicago e = +20m.12s., eSKKS = +26m.36s., eSP = +28m.36s., ePS = +29m.4s.,
 e = +34m.11s., eSS = +35m.11s., e = +38m.14s.
 Scoresby Sund e = +20m.35s., PS = +29m.9s., SS = +35m.41s., SSS = +39m.59s.
 Simferopol e = +19m.20s. and +28m.59s.
 Ann Arbor e = +29m.41s. and +35m.59s.
 Toronto eN = +32m.29s., e = +36m.29s.
 Copenhagen SS = +36m.35s.
 Ottawa e = +30m.23s., +36m.29s., and +51m.11s.?
 Ivigtut PS = +30m.5s., SS = +36m.47s.
 Columbia e = +29m.43s., +35m.56s., eSS = +36m.38s.
 Budapest eN = +20m.28s.
 Belgrade iZ = +20m.33s., eNE = +31m.32s.
 Cape Town iSS = +32m.29s., isSS = +37m.32s.
 Prague e = +32m.17s., +35m.53s., +37m.11s., and +42m.11s.?
 Philadelphia ePS = +30m.13s., e = +32m.38s., +36m.38s., eSS = +37m.18s.,
 eSSS = +41m.31s., e = +45m.44s., +50m.4s.
 De Bilt eEN = iZ = +20m.56s., e = +22m.11s.
 East Machias eSS = +38m.21s.
 Stuttgart ePKPZ = +18m.59s., ePKPEZ = +19m.29s., ePP = +20m.46s.,
 ePKS = +22m.6s., eZ = +22m.48s., eEZ = +24m.43s., eZ = +26m.55s.,
 ePPS = +32m.39s., eSSEN = +37m.53s.
 Uccle iZ = +21m.3s., iE = +22m.20s.
 Strasbourg eZ = +19m.34s., iPP = +21m.5s., iSKS = +22m.18s., iPPP =
 +24m.1s., ePS = +31m.11s.?, iPPS = +32m.32s., e = +35m.15s. and
 +36m.42s., eSS = +38m.15s.
 Bidston e = +21m.26s. and +22m.26s.
 Basle e = +19m.21s. and +19m.33s.
 Huancayo ePKP = +19m.22s., e = +20m.7s., +20m.40s., ePP = +20m.47s.,
 e = +21m.27s., SKP = +22m.20s., i = +22m.26s., +22m.57s., S =
 +29m.15s., ePS = +31m.0s., SS = +38m.28s., SS = +38m.44s., eSSS =
 +43m.25s.
 Kew ePPZ = +21m.11s., ePKS = +22m.21s., iZ = +23m.14s., iPPPZ =
 +36m.27s., eSSN = +38m.32s., iZ = +49m.42s.
 Rathfarnham Castle e = +23m.30s., +38m.26s., and +49m.27s.

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Florence $i = +22m.6s.$
 Paris $ePP = +22m.16s.$
 Jersey $i = +22m.45s., +23m.33s., e = +41m.2s. \text{ and } +54m.11s.?$
 La Paz $iSKPN = +22m.41s., SKSP = +31m.35s., iSSN = +39m.39s., iSSS = +44m.23s., LqN = +56.7m.$
 Algiers $PKP_2 = +19m.48s., iSKP = +22m.55s., PP = +23m.24s., PPP = +27m.31s., ePPS? = +40m.11s.?$
 Toledo $pPKPZ = +19m.59s., sPKPZ = +20m.16s., PPNZ = +22m.31s., PKSE = +23m.5s., PPPE = +25m.28s., PcPPKPN = +27m.45s., PKKSE = +31m.34s., iPSN = +32m.50s., SKKKSEN = +38m.1s., SSSE = +45m.54s., PPSNZ = +55m.36s.$
 San Juan $SKP = +22m.56s.$
 Almeria $ePP = +23m.4s.$
 San Fernando $e = +19m.52s., ePP = +22m.54s.$
 Long waves were also recorded at Oak Ridge, Cheb, Jena, Ithaca, and Bergen.

Dec. 29d. Readings also at 0h. (near Nagoya), 2h. (Nagoya), 6h. (Almeria (3), near Granada, and near Malabar), 8h. (near Mizusawa and Nagoya), 11h. (near Santiago), 14h. (Pasadena, Tinemaha, and near Mizusawa), 15h. (Tacubaya (2) and Florissant), 16h. (Florissant, Upsala, Theodosia (2), Simferopol (2), and Yalta (2)), 17h. (Pasadena), 19h. (Theodosia, Simferopol, Yalta, and near Ferndale), 20h. (Almeria and near Granada), 21h. (Andijan, Frunse, and Samarkand), 22h. (Christchurch, Andijan, Frunse, Tashkent (2), and Sverdlovsk).

Dec. 30d. 4h. 9m. 12s. Epicentre $30^{\circ}5N. 131^{\circ}6E.$ (as on 1934 Sept. 13d.). X.

$$A = -.5721, B = +.6443, C = +.5075; \quad \delta = -2;$$

$$D = +.748, E = +.664; \quad G = -.337, H = +.380, K = -.862.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Hukuoka	3.2	342	e 0 45	- 1	e 1 41	S_g	—	—
Hukuoka B	3.2	342	e 0 47	+ 1	1 40	S_g	—	—
Sumoto	4.7	36	e 0 59	- 8	—	—	—	—
Husan	5.1	335	e 1 15	+ 2	2 29	S^*	—	—
Kobe	5.1	36	e 1 14	+ 1	—	—	—	—
Toyooka	N.	5.7	27	1 18	- 3	—	—	—
Nagoya		6.5	44	e 1 46	P^*	—	—	—
Keizyo		8.1	332	e 3 6	+71	e 6 7	?	—
Zinsen		8.1	330	e 1 54	- 1	e 4 30	S_g	—
Zi-ka-wei	z.	8.8	277	e 2 4	- 1	4 38	S_g	5.5 8.0
Nanking		11.1	282	e 2 37	+ 1	e 6 5	S_g	— 8.8
Mizusawa		11.6	40	(e 2 48)	+ 5	e 2 48	P	—
Vladivostok		12.6	1	e 3 5	+ 9	e 5 49	+32	7.4 10.5
Chiufeng		15.8	312	e 3 40	+ 1	6 49	+15	— 12.6
Hong Kong		17.6	247	3 57	- 5	7 40	+25	— 13.9
Manila		18.7	214	4 10	- 5	7 54	+14	—
Calcutta	N.	39.3	269	—	—	e 14 8	+42	— 23.9
Tashkent		50.5	301	—	—	e 18 48?	S_cS	e 27.8 33.5
Sverdlovsk		54.6	321	—	—	17 23	+19	25.8 31.9
Ksara		77.8	301	e 11 56	- 1	e 22 12	+20	46.8 53.8

Additional readings:—

Sumoto $ePZ = +1m.2s., eZ = +4m.3s., eE = +4m.7s., eN = +4m.16s.$

Toyooka $ePE = +1m.37s.$

Chiufeng $i = +4m.5s.$

Tashkent $e = +24m.24s.$

Long waves were also recorded at De Bilt, Tiflis, Pulkovo, Moscow, Copenhagen, Strasbourg, Paris, and Stuttgart.

Dec. 30d. Readings also at 3h. (near Tucson), 4h. (Phu-Lien), 8h. (Manila), 10h. (near Kobe), 17h. (Hamburg), 20h. (Santiago), 21h. (near Samarkand).

Dec. 31d. Readings at 0h. and 2h. (near Nagoya), 14h. (Balboa Heights), 16h. (Balboa Heights, Ksara, Christchurch, near Tuai, and Wellington), 17h. (Jersey), 22h. (Wellington).

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CORRIGENDUM TO 1936 FEB. 16d.14h.18m.0s.

The epicentre $21^{\circ}5S$. $169^{\circ}0E$. adopted for this earthquake on Page 68 of this volume of the I.S.S. now appears to have been wrong. The revised determination printed below greatly improves the agreement with readings from several of the more distant observers, but disregards those of Wellington. In the determination originally made Wellington was regarded as a key station, and the remaining data were subordinated to it.

1936 February 16d. 14h. 17m. 1s. Epicentre $24^{\circ}0S$. $173^{\circ}0E$.

$$A = -.9067, B = +.1113, C = -.4067; \quad \delta = -10;$$

$$D = +.122, E = +.993; \quad G = +.404, H = -.050, K = -.914.$$

A *depth* of focus 0.020 has been assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
New Plymouth	-0.5	15.1	177	4	59	?	—	—	—	—	—
Wellington	-0.7	17.4	177	4	49	+59	7	39	+44	—	—
Sydney	-0.9	21.4	237	e 3	59?	-36	—	—	—	9.0	11.5
Riverview	-0.9	21.5	237	i 4	39a	+ 3	i 8	34	+16	—	12.6
Melbourne	-1.3	27.6	233	i 5	41	+ 9	i 10	21	+18	15.5	17.6
Adelaide	-1.4	31.7	241	e 6	9	+ 1	i 11	6	- 3	12.8	15.9
Ambaina	-2.0	47.7	288	6	43	?	—	—	—	—	—
Perth	-2.1	50.5	247	14	59	S	(14	59)	-41	22.8	—
Manila	-2.5	63.8	302	9	41	-33	16	41	?	—	17.0
Batavia	-2.5	65.7	275	10	6	-21	e 13	44	?	—	—
Hong Kong	-2.6	73.6	304	11	20	+ 3	19	28	-65	—	29.2
Nanking	-2.6	76.3	315	11	31	- 2	19	55	?	—	—
Vladivostok	-2.6	77.0	331	i 11	38	+ 1	i 14	10	?	—	—
Chiufeng	-2.7	83.1	320	i 12	13k	+ 3	i 21	16	-64	—	—
Pasadena	-2.7	87.4	51	i 12	31	- 1	—	—	—	—	—
Mount Wilson z.	-2.8	87.6	51	i 12	31a	- 1	—	—	—	—	—
Riverside	-2.8	87.9	51	i 12	33a	- 1	—	—	—	—	—
Haiwee	-2.8	88.6	49	e 12	37	0	—	—	—	—	—
Tinemaha	-2.8	88.9	49	e 12	38	- 1	—	—	—	—	—
Tucson	-2.8	91.9	56	(e 12	55)	+ 2	—	—	—	e 12.9	—
Calcutta z.	-2.8	94.4	293	13	18	+13	22	56	[-62]	—	—
Huancayo	—	104.2	111	e 18	49	PP	—	—	—	e 52.2	—
Agra z.	—	104.8	294	e 18	6	PP	i 23	48	?	—	—
Bombay	—	106.5	284	e 13	59?	-15	—	—	—	—	—
La Paz	—	107.9	119	e 19	19	PP	i 30	24	?	—	—
Tashkent	—	115.5	306	—	—	—	e 29	11	SKSP	—	51.3
Sverdlovsk	—	122.1	324	18	10	[-40]	26	11	[+14]	46.0	—
Tiflis	—	133.8	306	e 21	31	PP	—	—	—	—	—
Pulkovo	—	135.8	334	19	49	[+33]	29	39	{+41}	57.0	—
Ksara	—	141.5	295	e 19	7	[-16]	26	17	[+13]	—	—
Helwan	—	145.5	289	e 17	26	+ 3	e 22	41	?	—	—
De Bilt	—	150.4	345	e 19	23	[-19]	—	—	—	e 75.0	—
Zagreb	—	151.4	326	e 19	21	[-23]	—	—	—	—	—
Uccle	—	151.8	346	e 19	27	[-17]	—	—	—	e 42.0	—
Kew	—	152.1	351	e 18	59?	[-45]	—	—	—	—	—
Stuttgart	—	152.1	337	e 19	24a	[-20]	—	—	—	—	—
Triest	—	152.6	328	e 19	25	[-20]	—	—	—	—	—
Strasbourg	—	152.8	339	i 19	25	[-21]	—	—	—	e 41.0	—
Zurich	—	153.5	337	e 19	27	—	—	—	—	—	—
Chur	—	153.6	336	e 19	28	[-19]	—	—	—	—	—
Paris	—	154.1	346	e 19	31	[-16]	—	—	—	43.0	—

For Notes see next page.

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NOTES TO FEBRUARY 16d. 14h. 17m. 1s.

Additional readings :—

Riverview iPEN = +4m.42s., iEN = +5m.24s., iE = +5m.50s., iN = +8m.30s.,
iE = +8m.40s.

Wellington i = +5m.39s., pP? = +6m.19s., i = +8m.45s., P_cP = +9m.10s.,
sS? = +9m.59s., S_cP = +11m.34s., P_cS = +12m.2s., S_cS = +15m.44s.

Melbourne i = +6m.29s.

Adelaide i = +7m.16s.

Perth S = +19m.59s.

Batavia PZ = +10m.36s.

Nanking ePP = +14m.6s., iSE = +20m.44s.

Chiufeng pPNZ = +12m.32s., SSE = +21m.44s., S_cSNZ = +22m.0s., iN =
+22m.23s.

Pasadena iZ = +13m.12s., eE = +24m.7s.

Mount Wilson iZ = +13m.12s.

Riverside eZ = +13m.15s.

Calcutta PS = +23m.29s.

Huancayo e = +20m.14s., eSP = +27m.39s., eSS = +33m.59s.

Tashkent i = +34m.1s.

Tiflis e = +22m.45s., +27m.43s., +37m.44s., and +40m.50s.

Ksara ipPKP = +19m.46s., ipP = +22m.27s., i = +23m.36s., SKKS =
+28m.19s., PPS = +34m.55s., SS = +40m.36s.

Zagreb eZ = +20m.1s.

Stuttgart i = +20m.5s., eZ = +23m.29s.

Triest e = +20m.6s.

Strasbourg i = +20m.7s. and +20m.29s.

Paris i = +20m.12s.

Long waves were also recorded at Baku, Ivigtut, and Scoresby Sund.

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